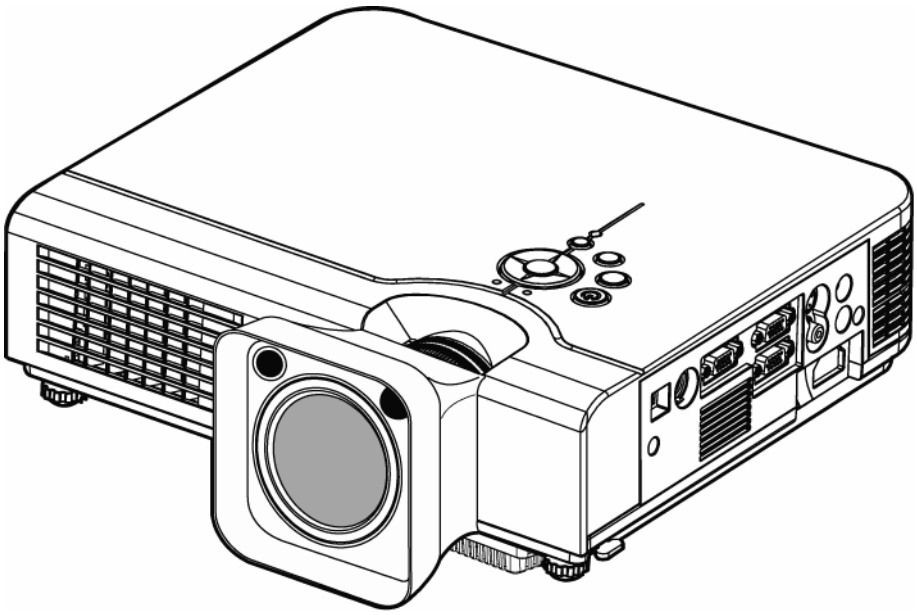
EIKI

MULTIMEDIA PROJECTOR



LC-XIP2000

OWNER'S MANUAL

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About owner's manual

Please read owner's manual thoroughly to ensure correct usage of the projector and its features. After reading, store owner's manual in a safe place for future reference.

Features

1. Design with 3LCD optical system.
2. Auto V keystone function, +/- 30 degrees.
3. Auto brightness control.
4. Auto ceiling function.
5. Built-in interactive smart function.
6. Extreme Short Throw Distance.

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⚠ WARNING This symbol indicates information that, if ignored, could possibly result in personal injury or even death.

⚠ CAUTION This symbol indicates information that, if ignored, could result in personal injury or physical damage.

Typical Symbols

This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents (for example: the illustration to the left indicates danger of electrical shock).

This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or description near the symbol (for example: the symbol to the left indicates that disassembly is prohibited).

This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or description near the symbol (for example: the symbol to the left shows that the power plug should be disconnected from the power outlet).

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⚠ WARNING

If a problem should occur

If smoke or strange odors arise, continued use could result in fire or electrical shock. In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer for repairs. Never attempt to make repairs yourself because this is dangerous.

Do not use this projector if there is no image or sound, or if the sound is distorted. Continued use could result in fire or electrical shock. In such case, immediately turn off the power switch; disconnect the power plug from the power outlet and contact your dealer.

If water would enter the inside of this projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

Do not install on an unstable surface.

Do not install this projector on an unstable surface such as a wobbly stand or incline because this could result in the projector falling and causing injury.

Do not open the cabinet.

Never open the cabinet. There is high voltage inside which can cause electrical shock. Contact your dealer for internal inspection, adjustment and repair.

Do not modify.

Do not modify this projector because this could result in fire or electrical shock.

Do not use in the bathroom or near water site.

Do not expose this unit to rain or use near water… for example, in the bathroom, a wet basement, near a swimming pool, etc…

Do not insert objects into the Projector.

Do not insert metal objects through the ventilation openings, etc., of this projector or drop such objects inside because this could result in fire or electrical shock.

If a foreign object should enter this projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

Continued use could result in fire or electrical shock. Use special caution in household and where children are present.

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⚠ WARNING

Do not look through the lens when the lamp is on.

Never look through the lens when the lamp is on. The powerful light could adversely affect vision. Use special caution in households where children are present.

Avoid shock or impact on the projector.

If the projector should fall, resulting in damage to the cabinet, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

Continued use could result in fire or electrical shock.

Do not place this projector in a container containing liquid. Do not place flower vases, flowerpots, cups, cosmetics, liquids such as water, etc., on top of this projector.

Do not use any power cable except those supplied with the projector.

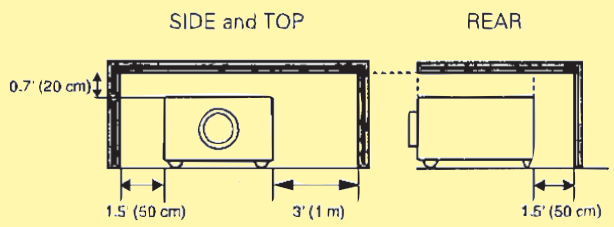
The use of any other power cable could result in fire or electrical shock.

Do not shine the laser beam onto yourself or other.

The laser pointer function of projector remote control emits class Ⅱ laser beam.
Do not look directly into the laser beam outlet or direct the laser beam at other people. Vision can be impaired if the laser beam enters the eyes. Especially pay attention if children are present.

High temperatures are generated when the lamp is lit; so do not place objects in front of the lens.

Allowing the proper amount of space on the top, sides, and rear of the projector cabinet is critical for proper air circulation and cooling of the unit. The dimension shown here indicate the minimum space required. If the projector is to be built into a compartment or similarly enclosed, these minimum distances must be maintained.



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⚠ CAUTION

Placing heavy objects on top of this projector could result in loss of balance or falling and cause personal injury or damage the projector.

Do not block the ventilation openings.

Do not block the ventilation openings of this projector.
Blocking ventilation could lead to internal overheating which could result in fire.

Do not place this projector on its side during use or push it into a small, poorly ventilated location.

Do not place this projector on a carpet or bedding or cover it with a tablecloth, etc. Also, when installing this projector, make sure the ventilation openings are at least 30cm(12in) clearance around the projector.

Care and maintenance.

For safety purposes, disconnect the power plug from the power outlet before starting the care and maintenance of this projector.

Battery usage.

Replace the batteries with the same type only.

Do not mix old and new batteries; this could result in fire or personal injury due to battery cracking or leakage.

Make sure the plus and minus terminals are correctly aligned when loading the batteries.

Incorrect loading could result in personal injury or contamination of the surroundings due to battery cracking or leakage.

Have the projector interior cleaned regularly.

Contact your dealer to arrange for the service.

Accumulations of dust inside the projector can result in fire or malfunction if not cleaned for an extended period.

Ask your dealer for details about internal cleaning.

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⚠ CAUTION

Avoid installation in humid or dusty locations. Do not install this projector in a humid or dusty location. This could result in fire or electrical shock.

Do not handle the power cord roughly. Keep the power cord away from heaters;

The heat could melt the power cord and cause fire or electrical shock.

Do not touch the power plug with wet hands;

This could result in electrical shock.

When disconnecting the power plug, do not pull on the power cord.
This could damage the power cord and cause fire or electrical shock. Always grip the plug when disconnecting.

When the projector is not to be used for an extended period.

If the projector is not to be used for an extended period because of travel, etc., disconnect the power plug from the power outlet and replace lens cover.

Compliance

Federal communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.
Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.
Model Number(s):LC-XIP2000
Trade Name :EIKI
Responsible party:EIKI
Address :30251 Esperanza Rancho Santa Margarita CA 92688-2132 U.S.A.
Telephone No. :800-242-3454(949-457-0200)

NOTE: This symbol and recycle system are applied only to EU countries in the other area of world.

Your EIKI product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in !

Voor de klanten in Nederland
Bij dit product zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

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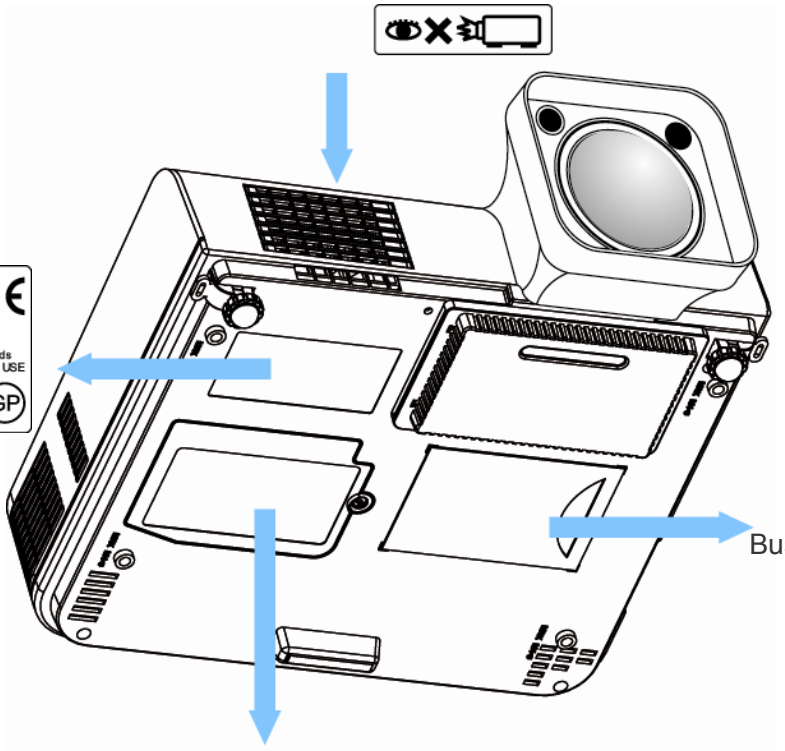
Location of product safety labels

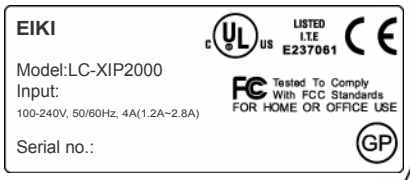
Safety labels are used on or within the projector to alert you to items or areas requiring your attention.

LENS WARRANTY LABEL

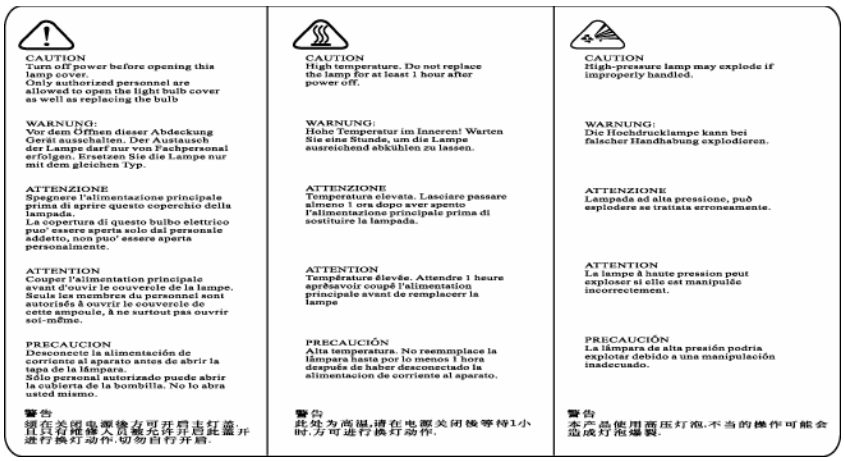


Business card

EMI LABEL



LAMP WARNING LABEL


CAUTION
Turn off power before opening this lamp cover.
Only authorized personnel are allowed to open the light bulb cover as well as replacing the bulb
WARNUNG:
Vor dem Öffnen dieser Abdeckung Gerät ausschalten. Der Austausch der Lampe darf nur von Fachpersonal erfolgen. Ersetzen Sie die Lampe nur mit dem gleichen Typ.
ATTENZIONE
Spegnere l'alimentazione principale prima di aprire questo coperchio della lampada.
La copertura di questo bulbo elettrico puo' essere aperta solo dal personale addetto, non puo' essere aperta personalmente.
ATTENTION
Couper l'alimentation principale avant d'ouvir le couvercle de la lampe.
Seuls les membres du personnel sont autorisés à ouvrir le couvercle de cette ampoule, ñ ne surtout pas ouvrir soi-même.
PRECAUCION
Desconecte la alimentación de corriente al aparato antes de abrir la tapa de la lámpara.
Sólo personal autorizado puede abrir la cubierta de la bombilla. No lo abra usted mismo.
警告
CAUTION
High temperature. Do not replace the lamp for at least 1 hour after power off.
WARNUNG:
Hohe Temperatur im Inneren! Warten Sie eine Stunde, um die Lampe ausreichend abkühlen zu lassen.
ATTENZIONE
Temperatura elevata. Lasciare passare almeno 1 ora dopo aver spento l'alimentazione principale prima di sostituire la lampada.
ATTENTION
Température élevée. Attendre 1 heure aprèsavoir coupé l'alimentation principale avant de remplacerr la lampe
PRECAUCIÓN
Alta temperatura. No reemmplace la lámpara hasta por lo menos 1 hora después de haber desconectado la alimentacion de corriente al aparato.
警告
CAUTION
High-pressure lamp may explode if improperly handled.
WARNUNG:
Die Hochdrucklampe kann bei falscher Handhabung explodieren.
ATTENZIONE
Lampada ad alta pressione, puð esplodere se trattata erroneamente.
ATTENTION
La lampe à haute pression peut exploser si elle est manipulée incorrectement.
PRECAUCIÓN
La lámpara de alta presión podría explotar debido a una manipulación inadecuado.
警告

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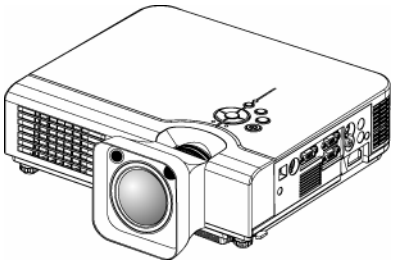
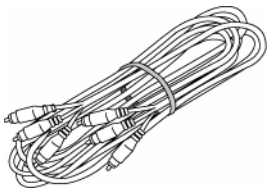
Checking the Package Contents

☐ Projector

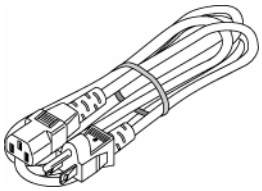


☐ Remote Control with batteries

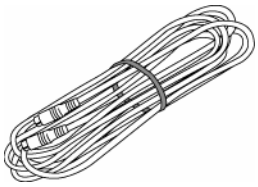
☐ Video Cable



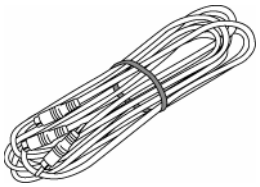
☐ Power Cord



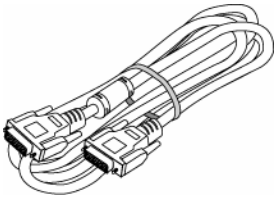
☐ S-Video Cable



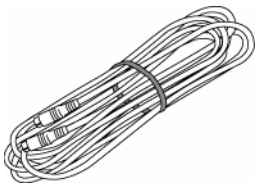
☐ Audio Cable



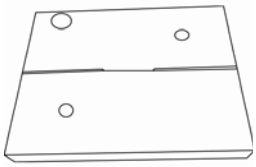
☐ Computer cable



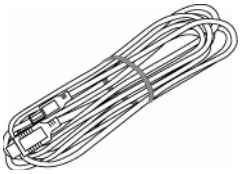
☐ Speaker Cable



☐ Accessory Bag



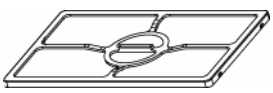
☐ USB Cable(1.5M)



☐ Pen

☐ Pointer

☐ Filter



☐ Batteries

☐ Hanging String

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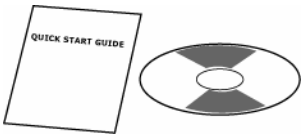
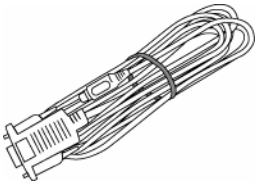
Checking the Package Contents

☐ Quick Start Guide / Owner's Manual CD

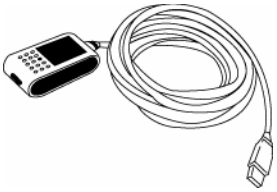


☐ Carry Bag (Optional)

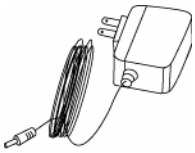
☐ RS232 Cable (Optional)



☐ Extension USB Cable(5M,Optional)



☐ Adapter (Optional)



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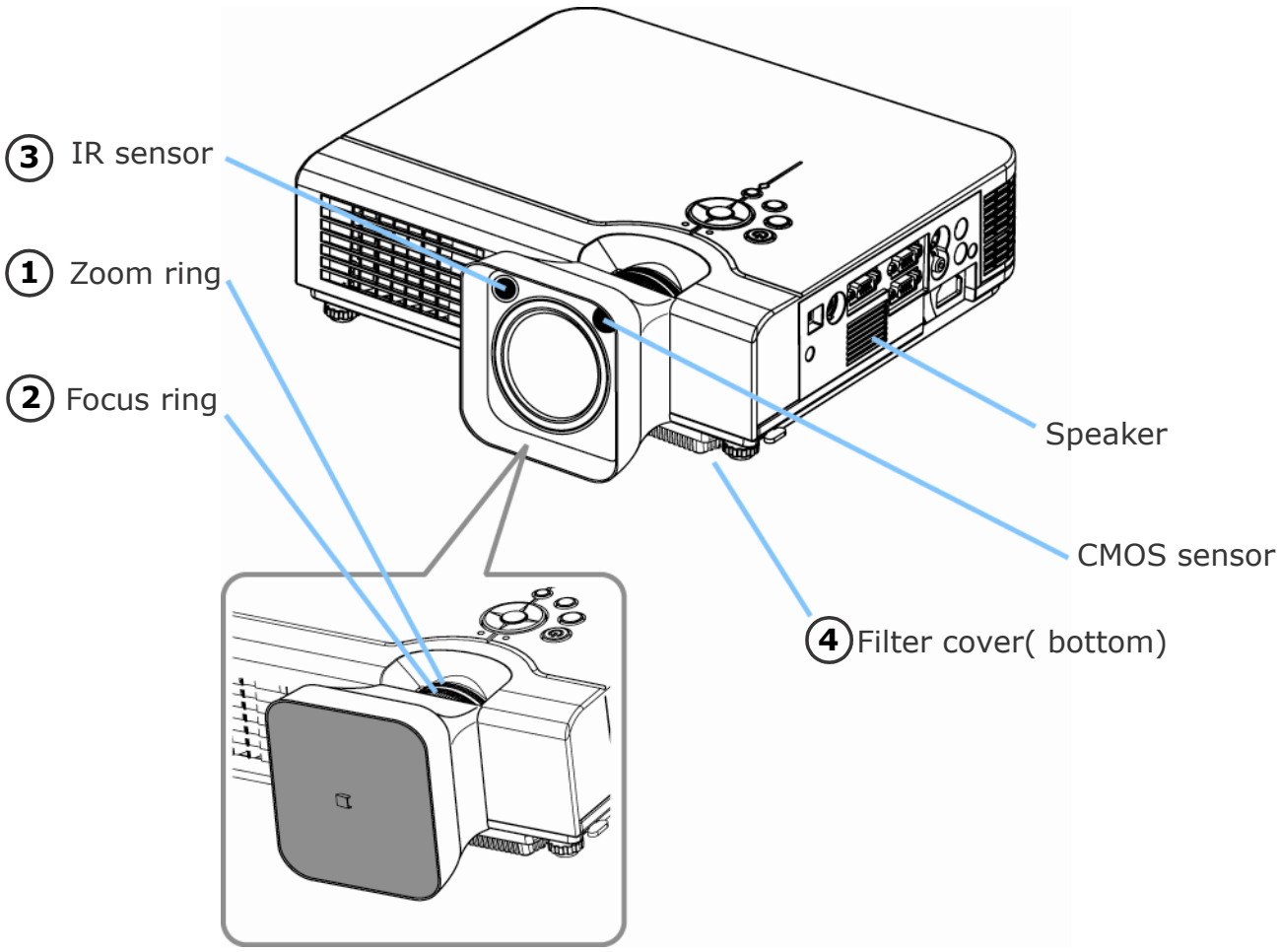
Part Names and Function:

Main Unit



① Zoom Ring

Use the Zoom Ring to adjust the size of the projected image. Rotate the Zoom Ring until the image is the desired size.

② Focus Ring

Use the Focus Ring to focus the projector image. Rotate the Focus Ring until the image is clear.

③ IR sensor

When using the remote control, point the remote control at this sensor.

④ Filter cover

Prevent dust and other foreign particles from being drawn into projector. Remove the Filter cover to clean the air filter.

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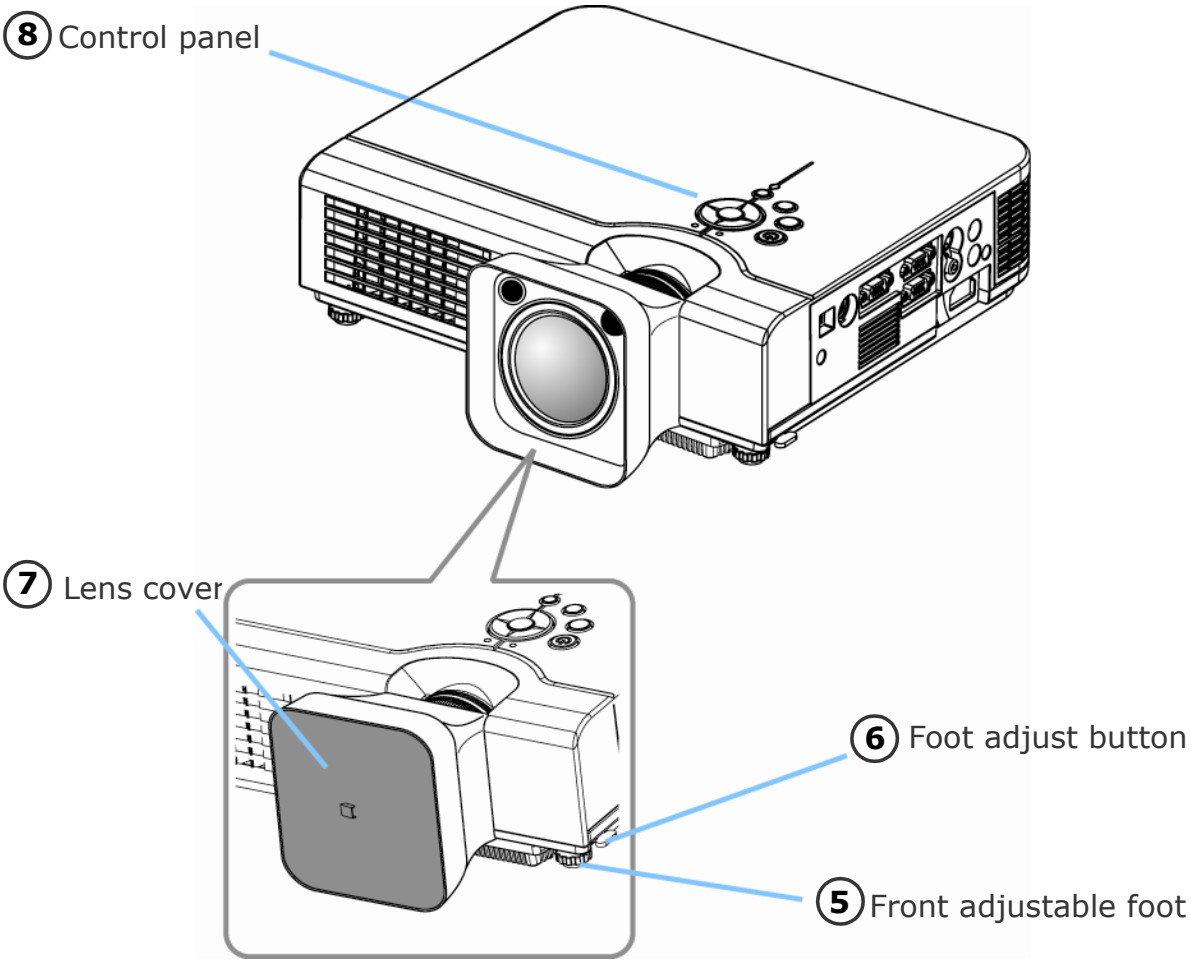
Main Unit



⑤ Front adjustable foot

Extend and retract to adjust the projection angle

⑥ Foot adjust button

Lock/unlock the adjustable foot.

⑦ Lens cover

Attach when not using to protect the lens from becoming dirty or damaged.

⑧ Control panel (keypad)

Operating system.

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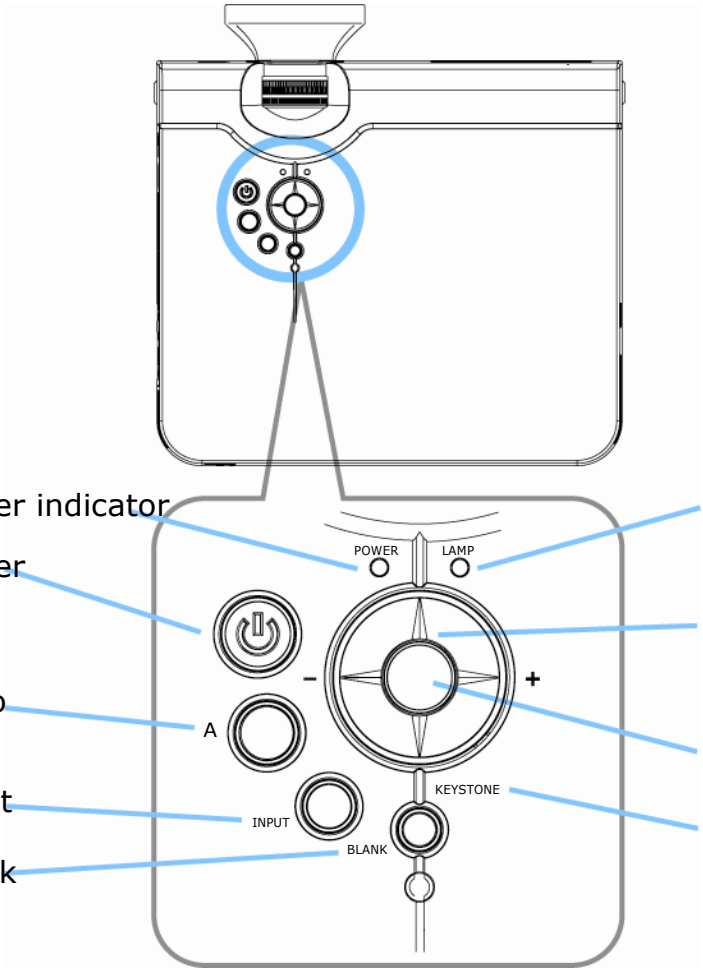
Control panel



1. Power button

Power on / operation mode, Standby mode, Cooling-down mode Brightness function,when sensor detects the surrounding light lower than 150 lux,"power button"will turn into blue light.

2. Input

Selects between RGB input source-Computer in1→ Computer in 2(RGB or YPbPr) →AV→S-Video→ Computer in 1 , System will auto detect YPbPr or RGB signal in computer in 2 port.

3. Blank

Blanks the projected image. If the projector is left in blank mode for more than 15 minutes, the projector will automatically shut down.

4. Auto

Automatically adjusts the setting to match the current input.

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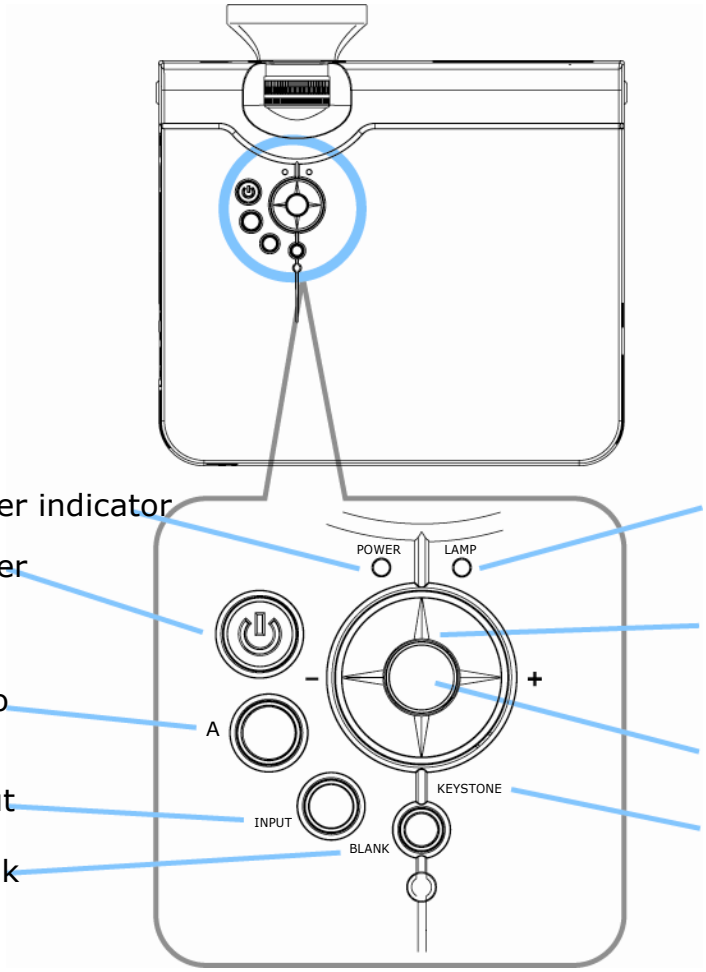
Control panel



5. Menu

Display or hides the OSD main menu page.

6.Menu-up /down, Menu-right / left

Selecting OSD menu item up or down.
Selecting and adjusting the function of OSD menu item

7. Keystone

Adjusts the vertical keystone with menu-up, menu-down(See Page 53)

8.Power indicator

Lights on or flashes to indicate the operating status of the projector (See Page 73)

9. Lamp indicator

Indicate a problem in the internal projector temperature, lamp cover or cooling down. (See Page 73)

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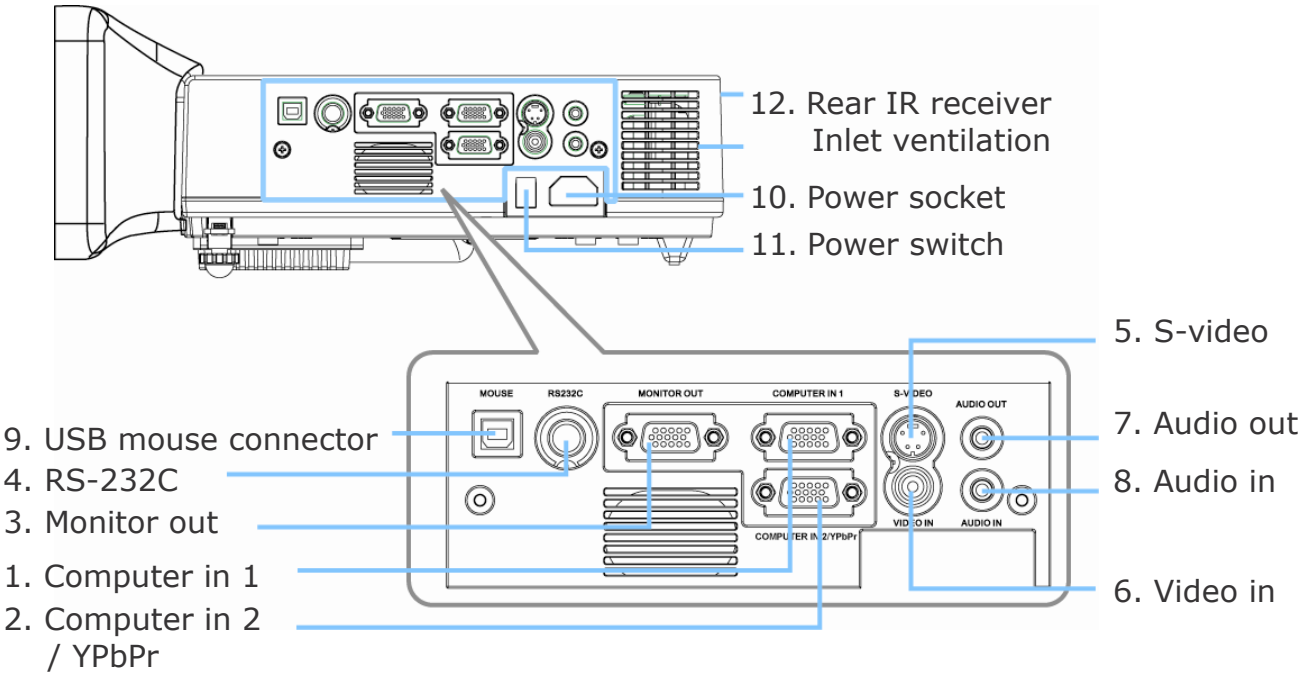
Rear View / IO Board



1. Computer in 1
Input Analog RGB video signal from a computer

2. Computer in 2 / YPbPr
When input signal from computer in 2, it may encounter incorrect picture color. Please press "Auto" button again. The picture will be corrected.

3. Monitor out connector
Connect an external monitor to this connection view the Computer in 1 input.

4. Control (RS-232C)
Serial data port for controlling the projector with a computer or other RS-232 control device.

5. S-Video connector
S-Video signal from a video source.

6. Video in
Component video signal from a video source.

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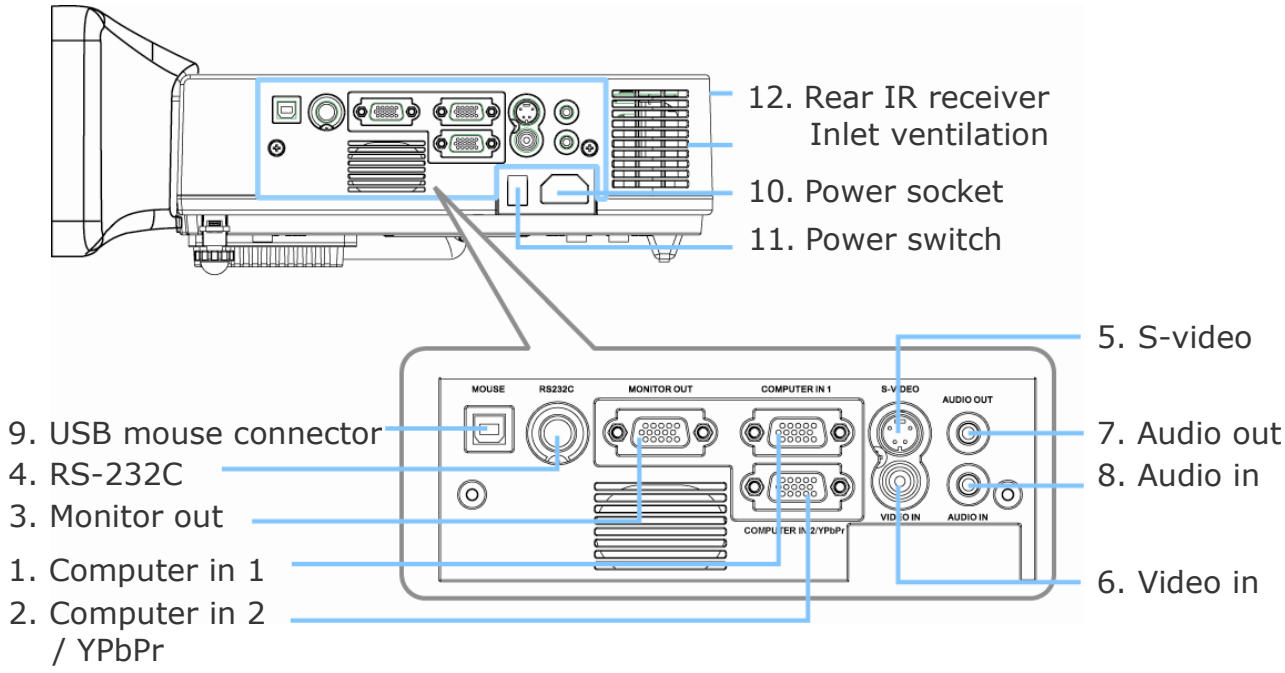
Rear View / IO Board



7. Audio out

Connecting to an external speaker system.

8. Audio in

Stereo mini jack for PC input

9. USB mouse connector

Connects a USB cable to a computer for interactive smart function.

10. Power socket

Connects the power cord to this connection.

11. Power switch

Turns the power on/off.

12. Rear IR receiver

When using the remote control, point the remote control at this sensor.

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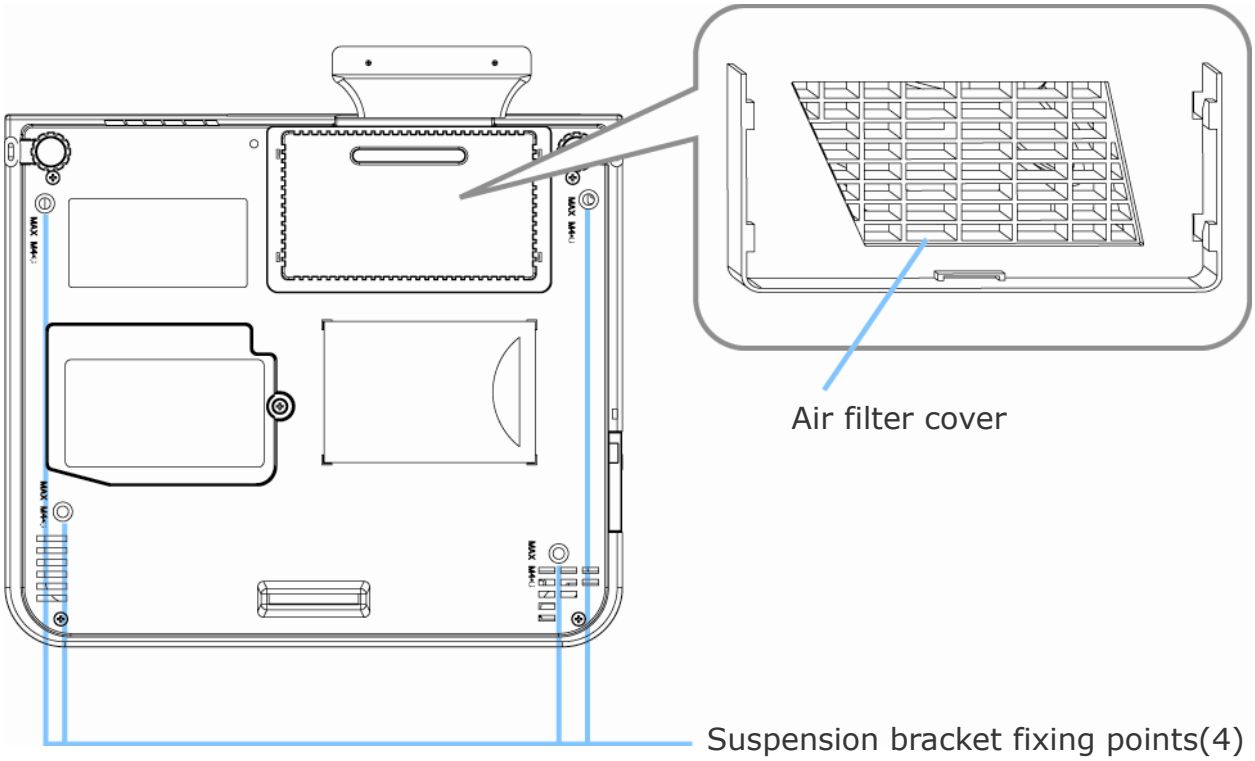
Bottom View



1. Suspension bracket fixing points (4 points)
Install the optional ceiling mount here when suspending the projector from the ceiling.

2. Air filter cover
Prevents dust and other foreign particles from being drawn into the projector.

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Remote Control

Power
Power on / operation mode, Standby mode, Cooling-down mode

Esc
Press”ESC”button,it will close”Menu”picture

Vol +/-
Sound louder or lower

Menu
Display or hide the OSD main menu page

Keystone +/-
Adjusts the vertical keystone function

Still
Keep the current image on the Screen

Blank
Hide the current image,become black color on the screen

Auto
Refresh the current image

Menu up/down, Menu left/right
Selecting and adjusting the function of OSD

INPUT source
Select input source: Computer 1 →Computer 2 →Composite Video →S-Video →Computer 1

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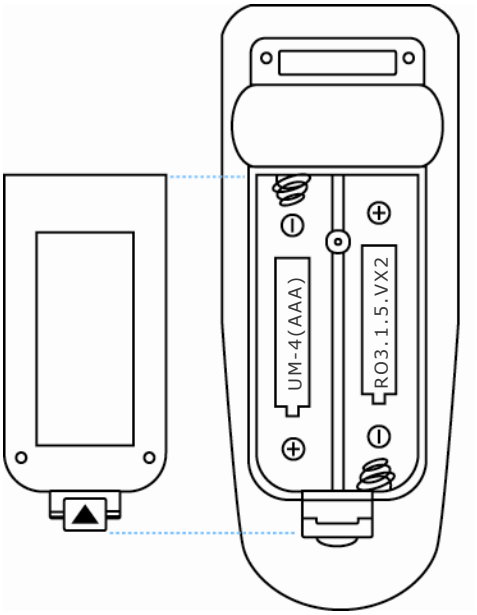
Remote Control Batteries Installation

1. Remove the battery cover.

2. Loading the batteries.
   Make sure the plus and minus poles are correctly oriented.

3. Close the battery cover.



⚠ CAUTION

1. Avoid excessive heat and humidity.

2. Do not drop the remote control.

3. Do not expose the remote control to water or moisture, this could result in malfunction.

4. When the remote control will not be used for an extended period, remove the batteries.

5. Replace the batteries when remote control operation becomes sluggish or unresponsive.

6. Do not place the remote control close to the cooling fan of the projector.

7. Do not disassemble the remote control. If the remote control needs service. Please bring it to the service station.

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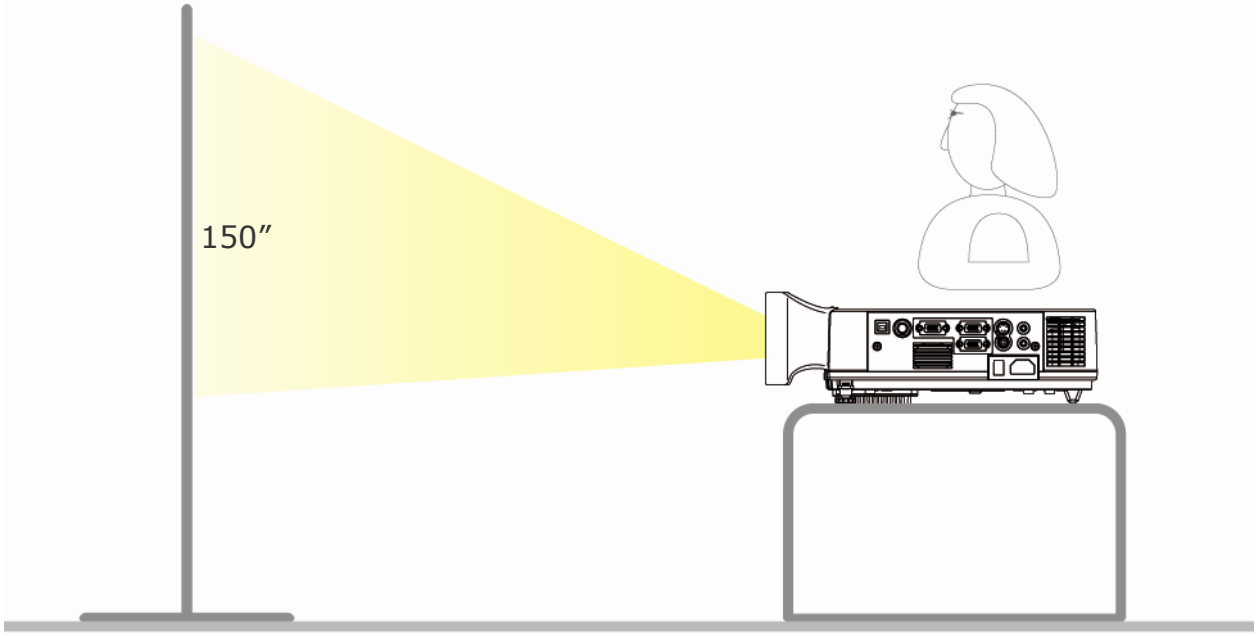
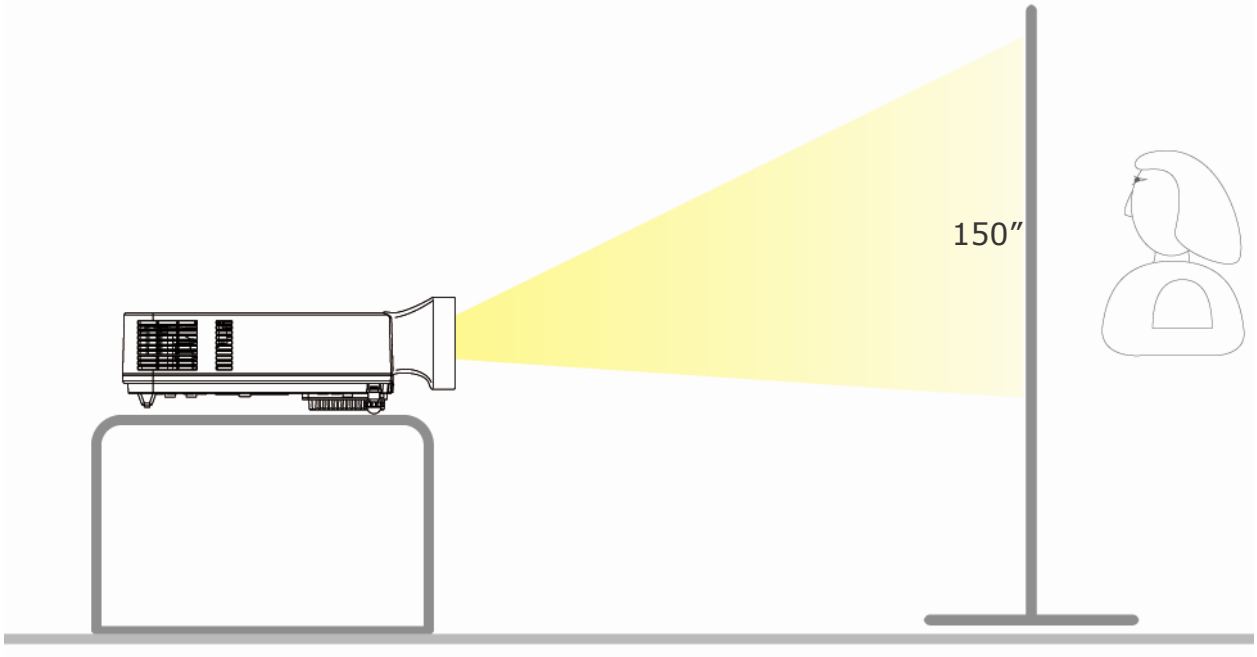
Setting Up the Projector

The projector supports the following four different projection methods

Front projection



Rear



A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for details.

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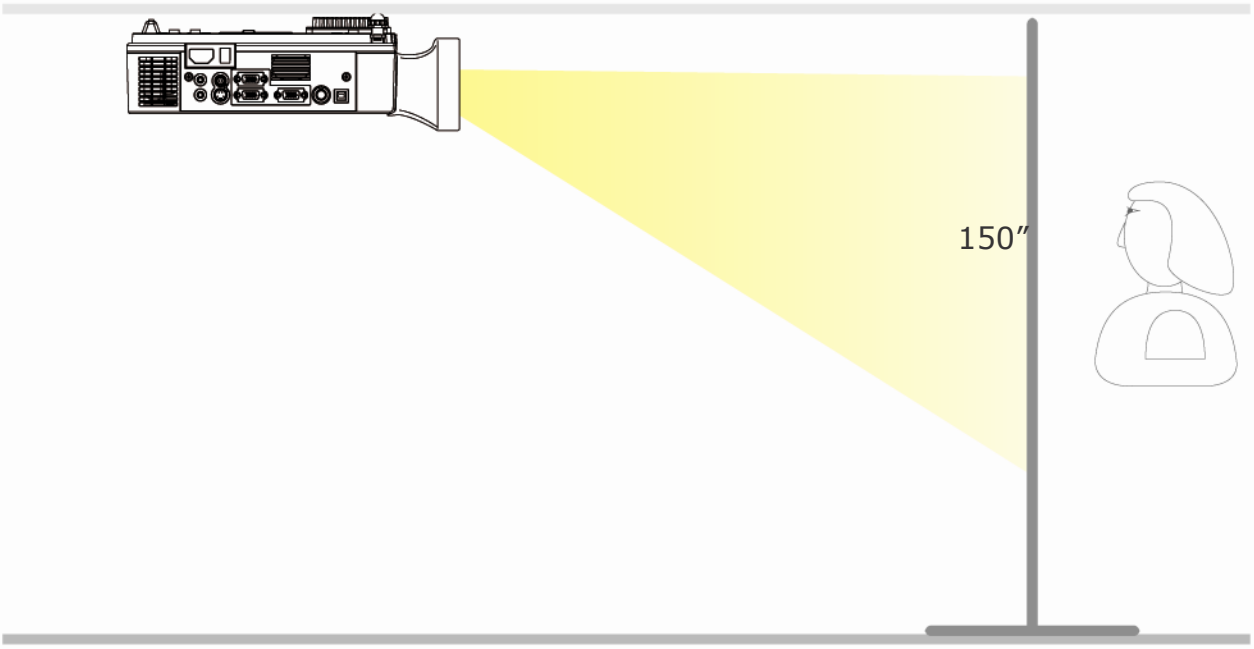
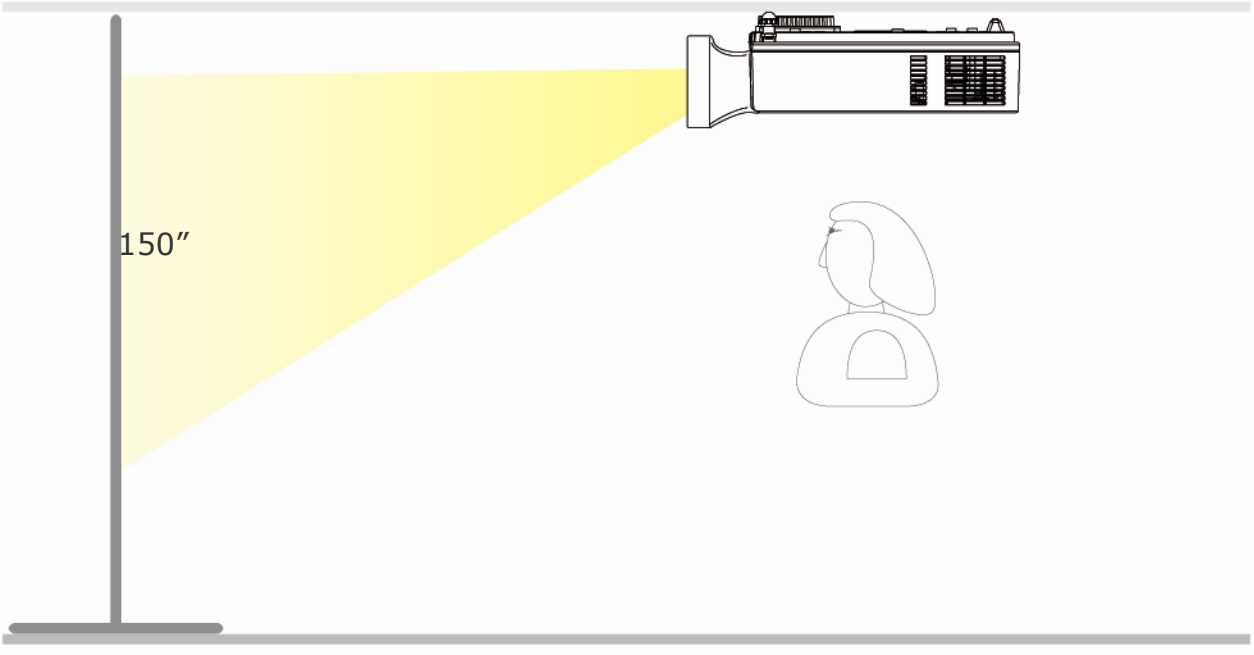
Setting Up the Projector

Rear ceiling projection



Front ceiling projection



A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for details.

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Size and Projection Distance

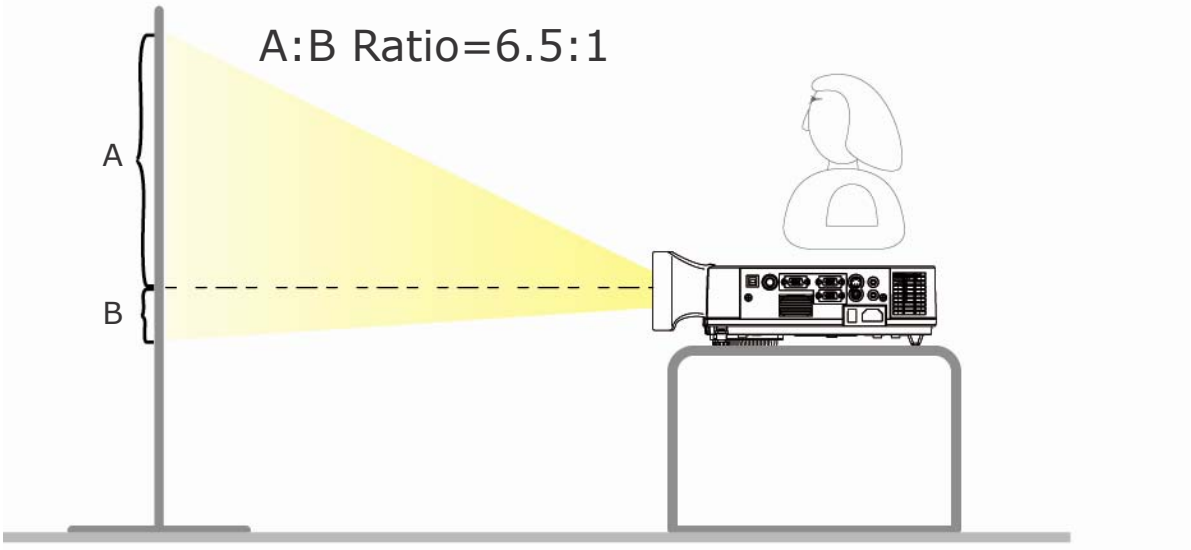
The distance between the projector and screen determines the actual image size. Refer to the table below to determine the image size at a given distance.

The values shown below are approximate and may vary from actual sizes.

Screen Size (inches)	50"	60"
(WxH) mm	1016x762	1219x914
Zoom(min)	3.8'(1.2m)	4.6'(1.4m)
Zoom(max)	3.3'(1.0m)	3.8'(1.2m)

Screen Size(inches) (WxH) mm	80"	100"
	1626x1219	2032x1524
Zoom(min)	6.2'(1.9m)	7.8'(2.4m)
Zoom(max)	5.2'(1.6m)	6.5'(2.0m)

Screen Size(inches) (WxH) mm	150"
	3048x2286
Zoom(min)	11.9'(3.6m)
Zoom(max)	9.9'(3.0m)



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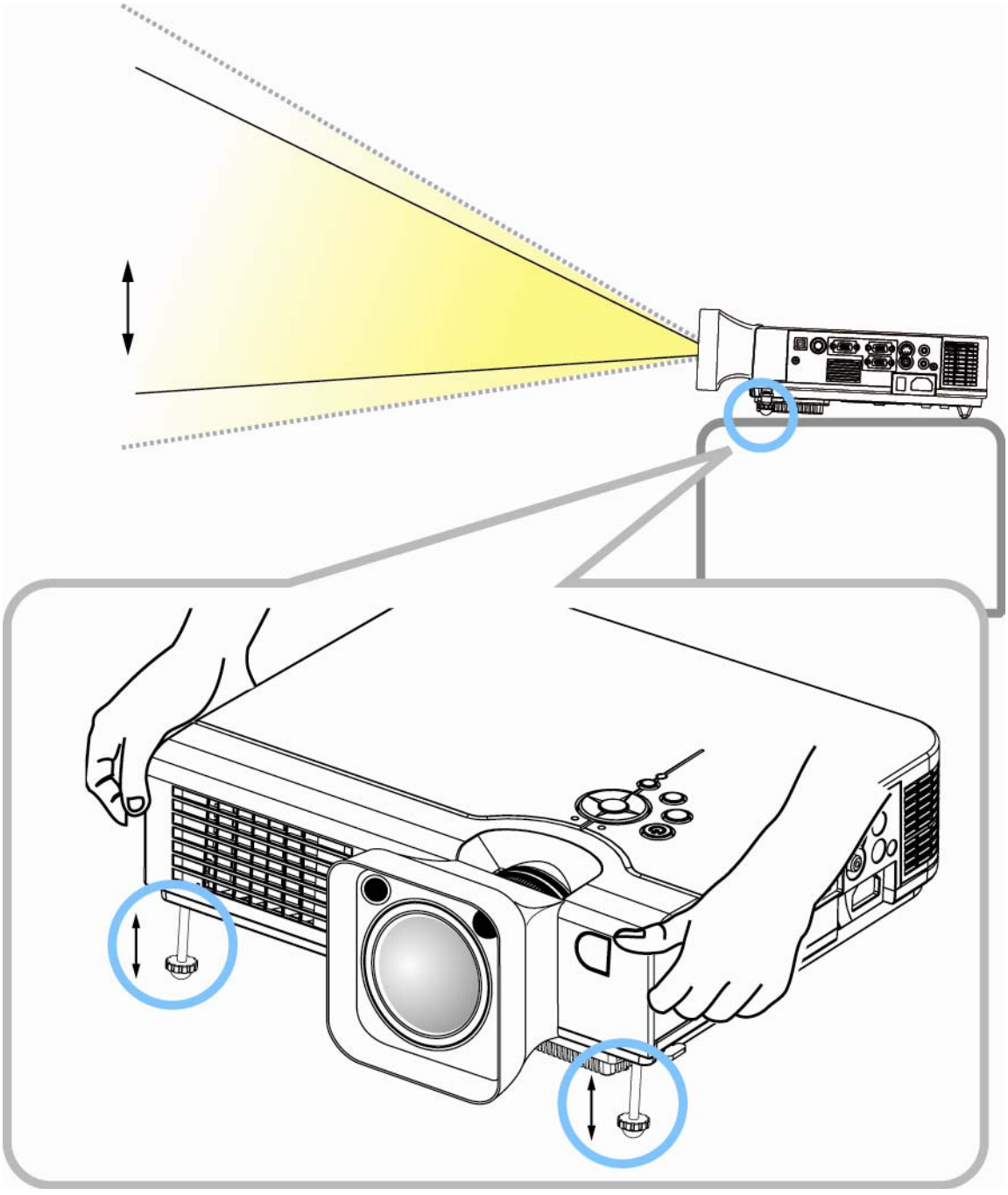
Adjusting the Image Position

Use the adjustable foot at the front of the projector to set the image height. Rotate the adjustable foot at the rear of the projector to fine-tune the image position.

When the foot is adjusted, it may cause the shape of the projected image to become distorted. Use the keystone correction function to correct this distortion.

To retract the front adjustable foot, press the foot adjust button. The front adjustable foot will slowly retract inside the projector.



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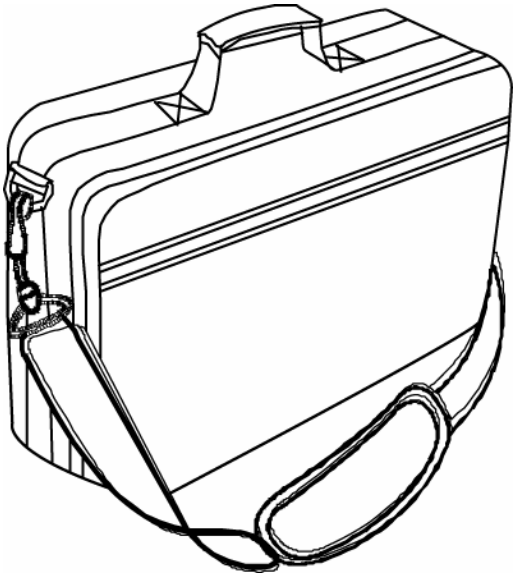
Moving the projector

1. Use the carry bag when moving the projector.(option)
2. Replace the lens cover and retract the front adjustable foot when moving the projector to prevent damage to the projector.



carry bag

(Optional, please contact your dealer for more information)

⚠ **CAUTION**

The optional carry bag is intended to protect the projector from dust and scratches on the surface of the cabinet. It is not designed to protect the projector from external shock.

Do not transport the projector in an unsuitable transport case when using a courier or transport service. This may cause damage to the projector.

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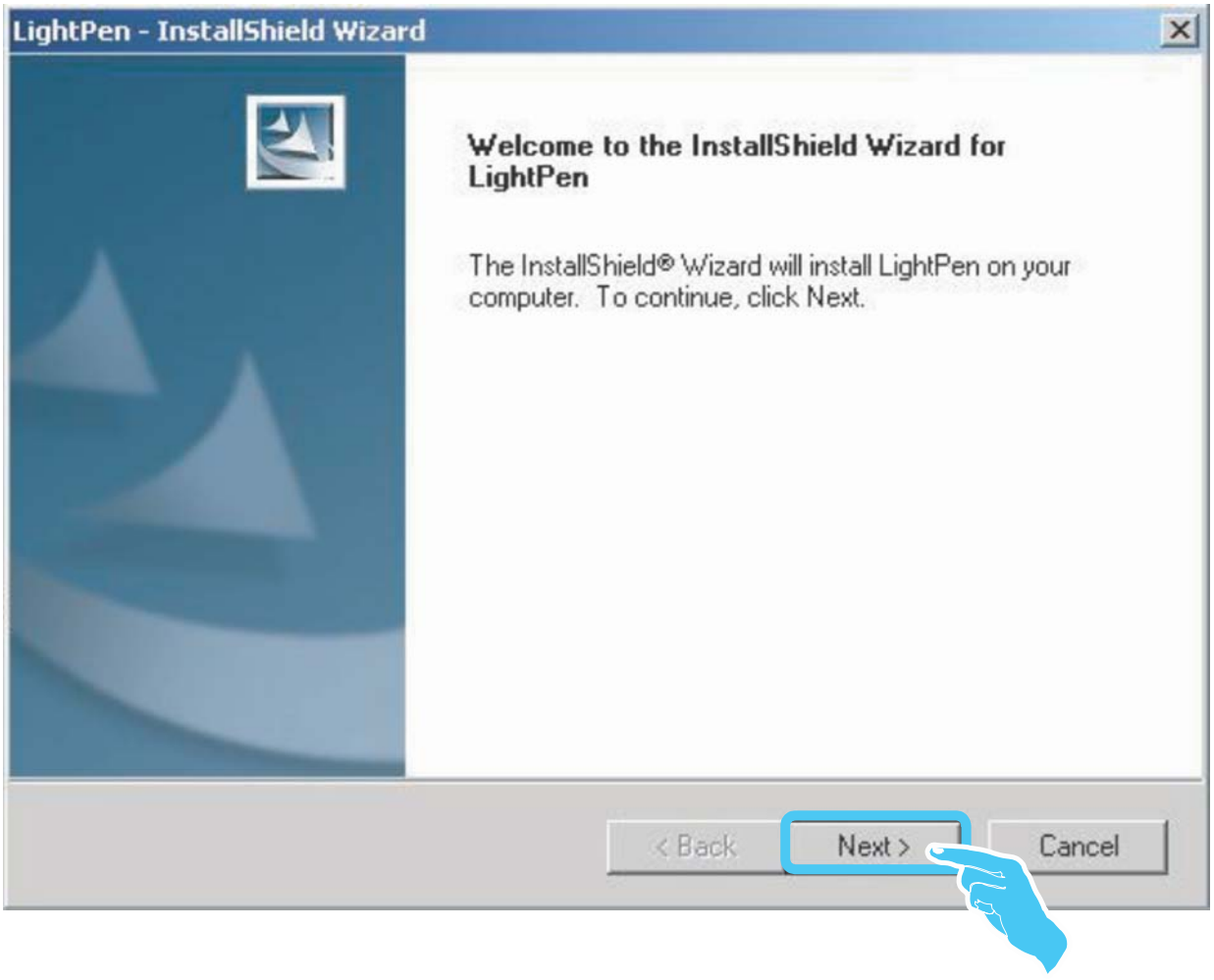
Software and Hardware install

1.Section one : System Requirements

System Requirements	
OS Required	Microsoft Windows 2000/XP(SP2)
Processor Type	Intel Pentium IV or above
RAM	256 MB or above
Min. Free disk space	30 MB
CD-ROM Driver & available USB 2.0 port	

2.Section two : Software and Hardware driver installation

Step 1: Insert the Disc to the PC.
Step 2: Execute setup.exe
Step 3: Next


LightPen - InstallShield Wizard
Welcome to the InstallShield Wizard for LightPen
The InstallShield® Wizard will install LightPen on your computer. To continue, click Next.
< Back
Next >
Cancel

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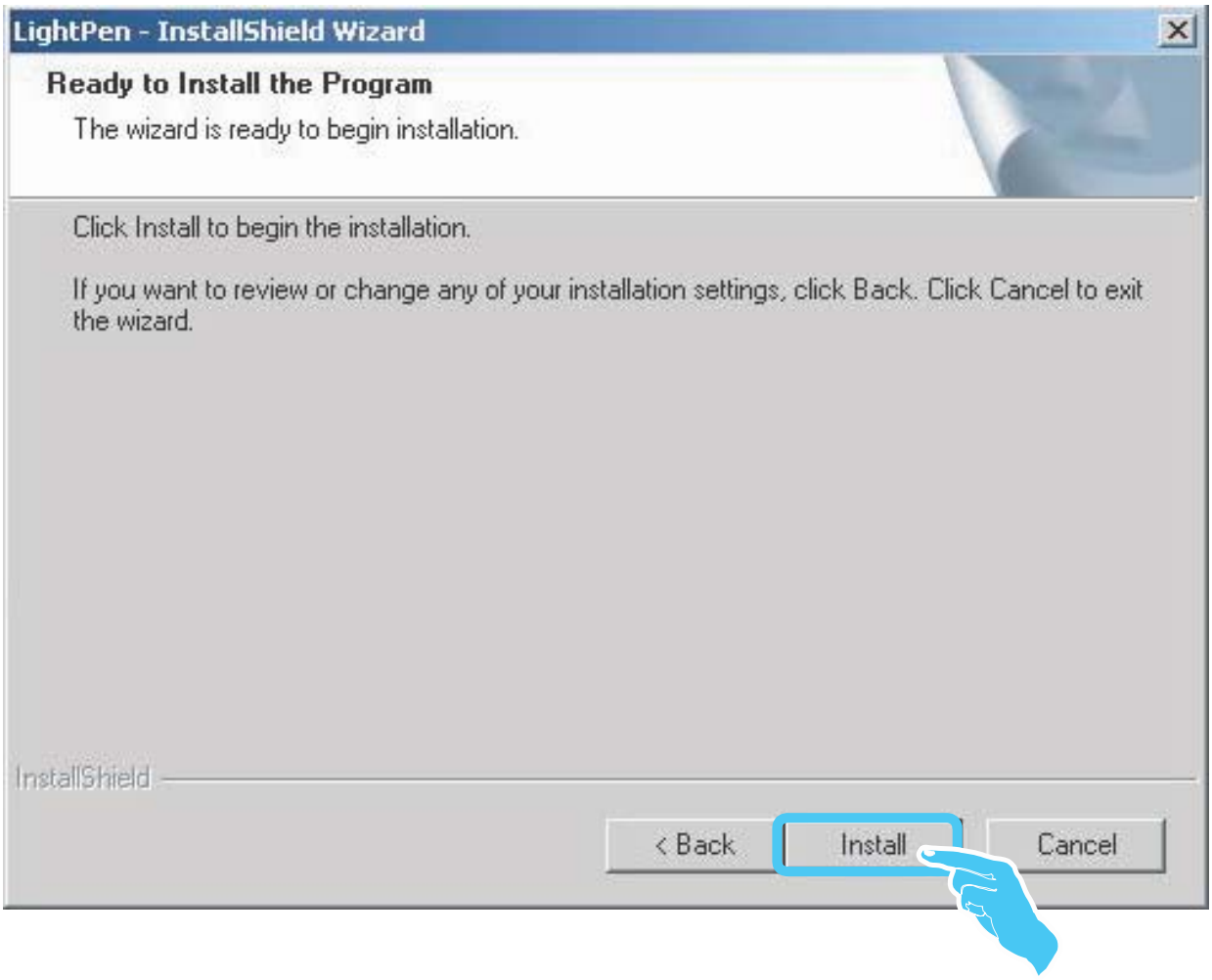
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 4: Install


LightPen - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

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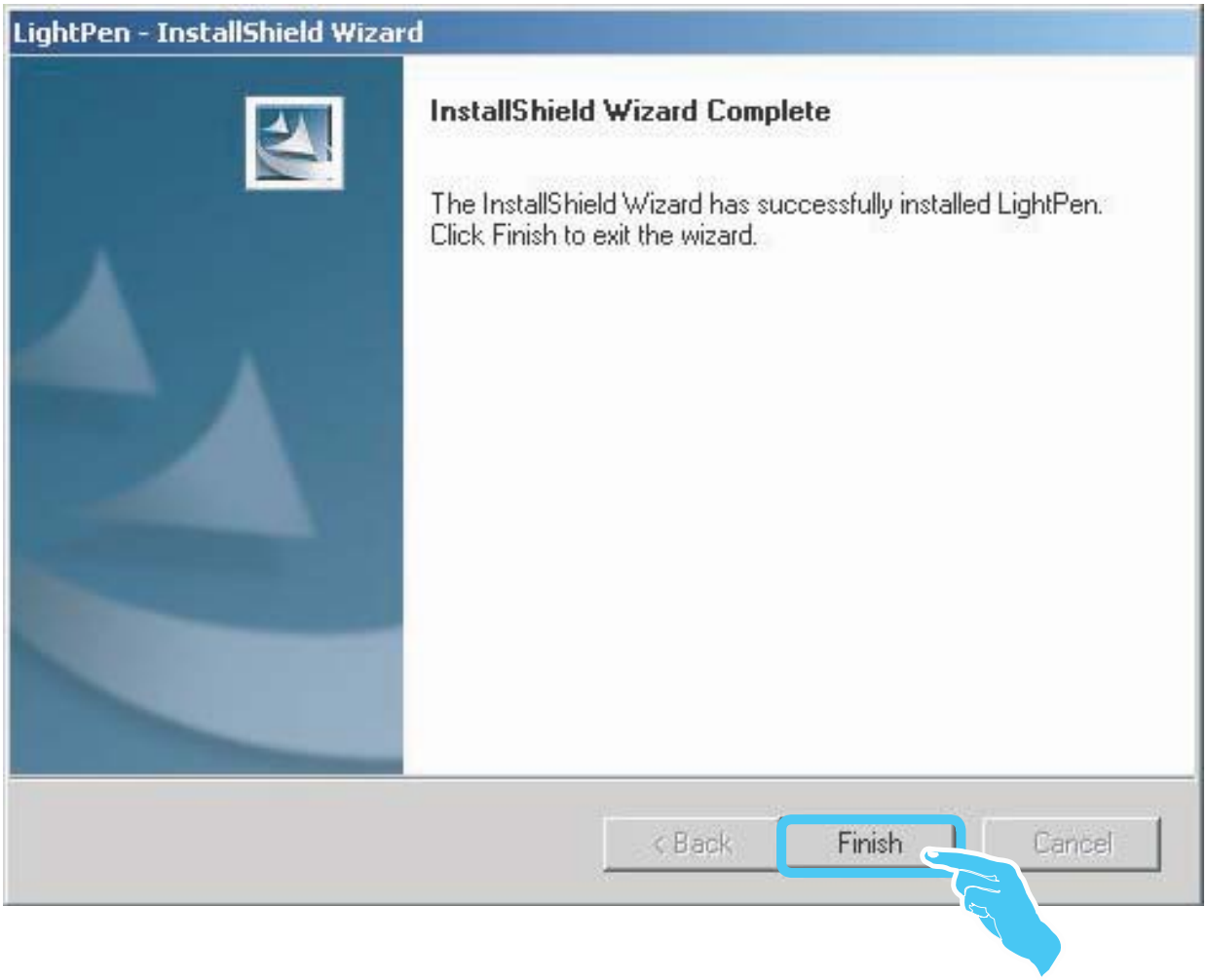
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 5: Finish (“LightPen” software installation)


LightPen - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed LightPen. Click Finish to exit the wizard.
< Back
Finish
Cancel

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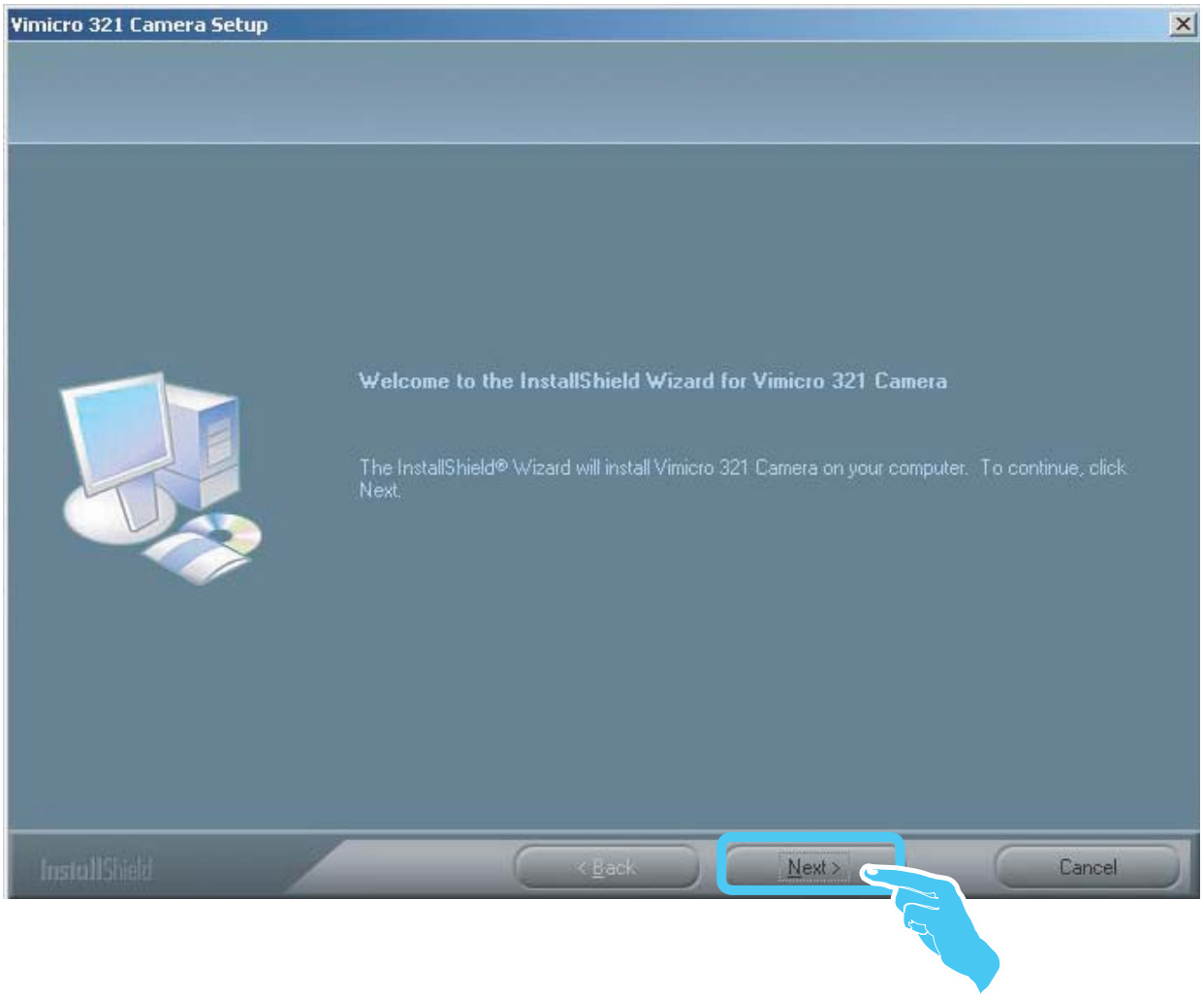
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 6: Next (Continue to install driver for CMOS hardware)


Vimicro 321 Camera Setup
Welcome to the InstallShield Wizard for Vimicro 321 Camera
The InstallShield® Wizard will install Vimicro 321 Camera on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

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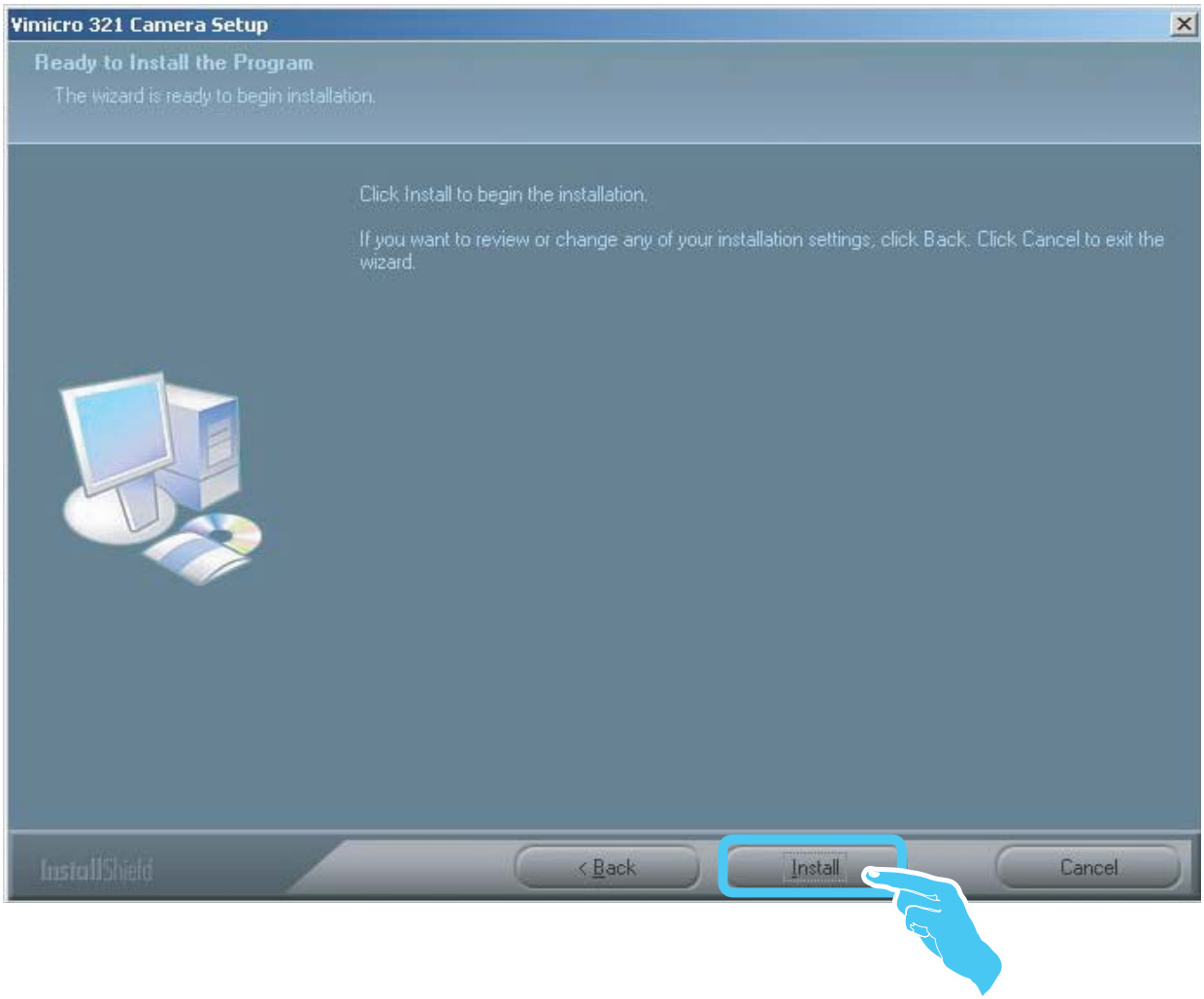
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 7: Install


Vimicro 321 Camera Setup
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

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Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 8: Continue Anyway

Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

NOTE: We confirmed that installation of this software will not impair or destabilize the correct operation of your system.

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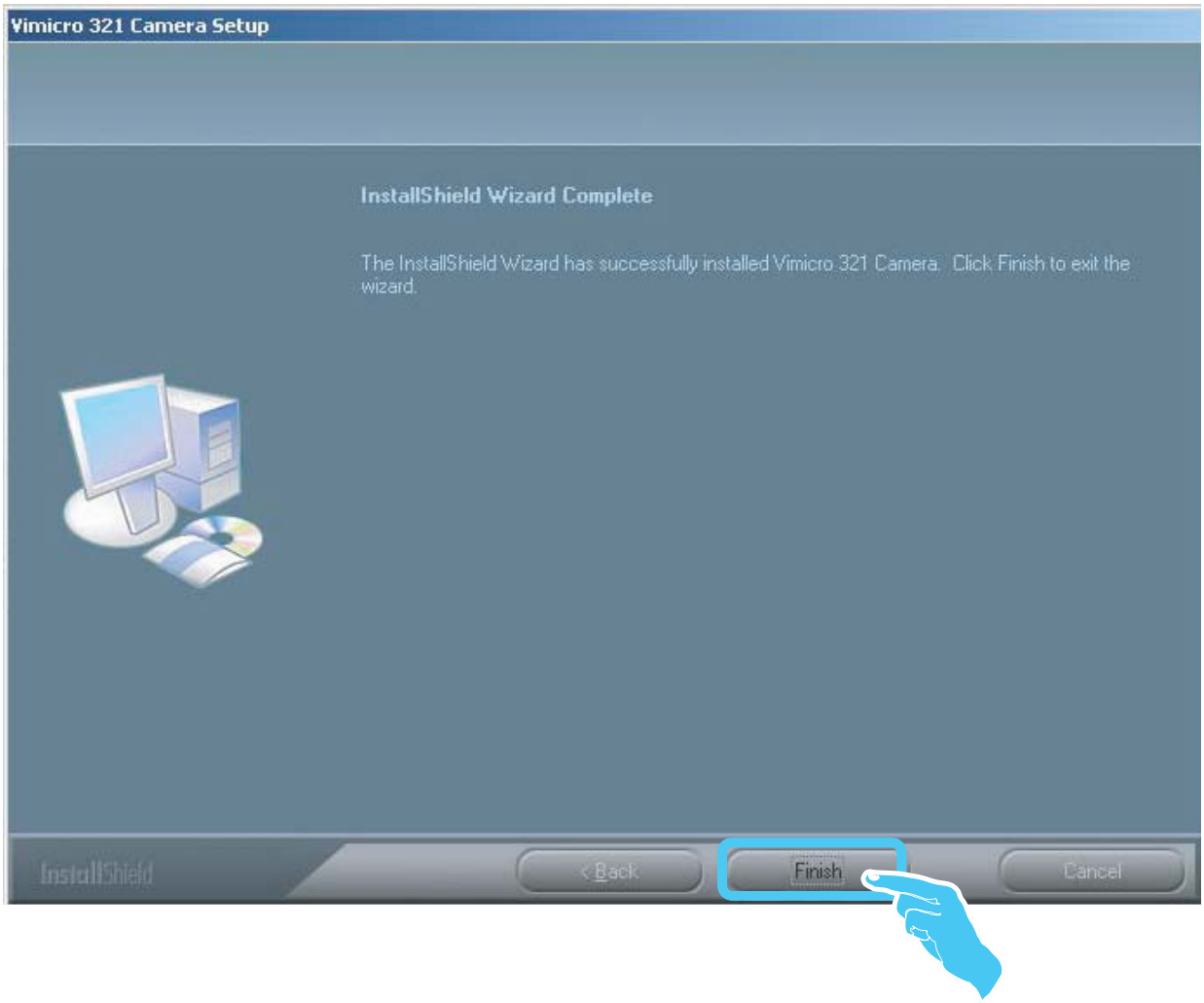
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 9: Finish



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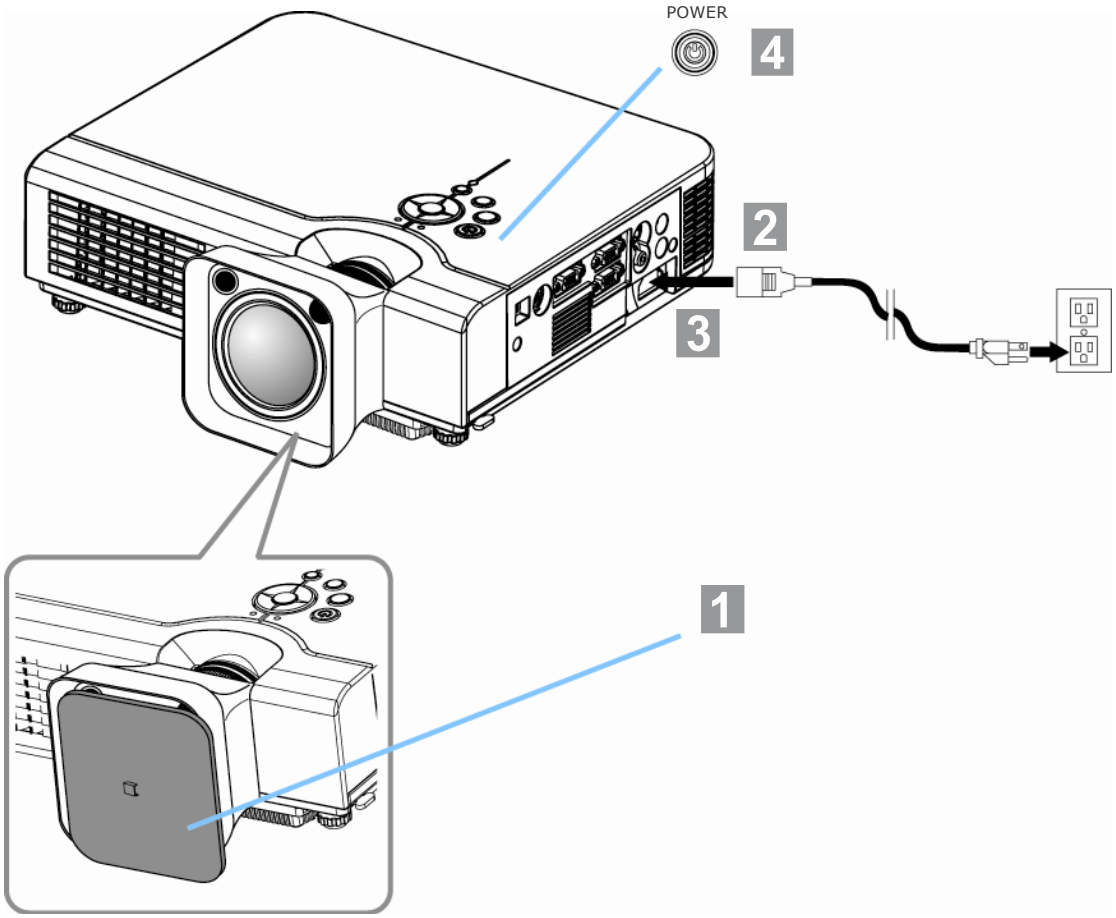
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 10-A: Turning on the projector



1 Remove the lens cover.

2 Connect the projector's power cable with the projector, and insert the power cable into a wall socket.

3 Turn on the AC power switch of the projector.The power indicator lights green and slowflashing. Projector works in standby mode.

4 Press the power button to turn on the projector. The power LED begins to green and lamp LED begins to red, and the projector will be lamped on.

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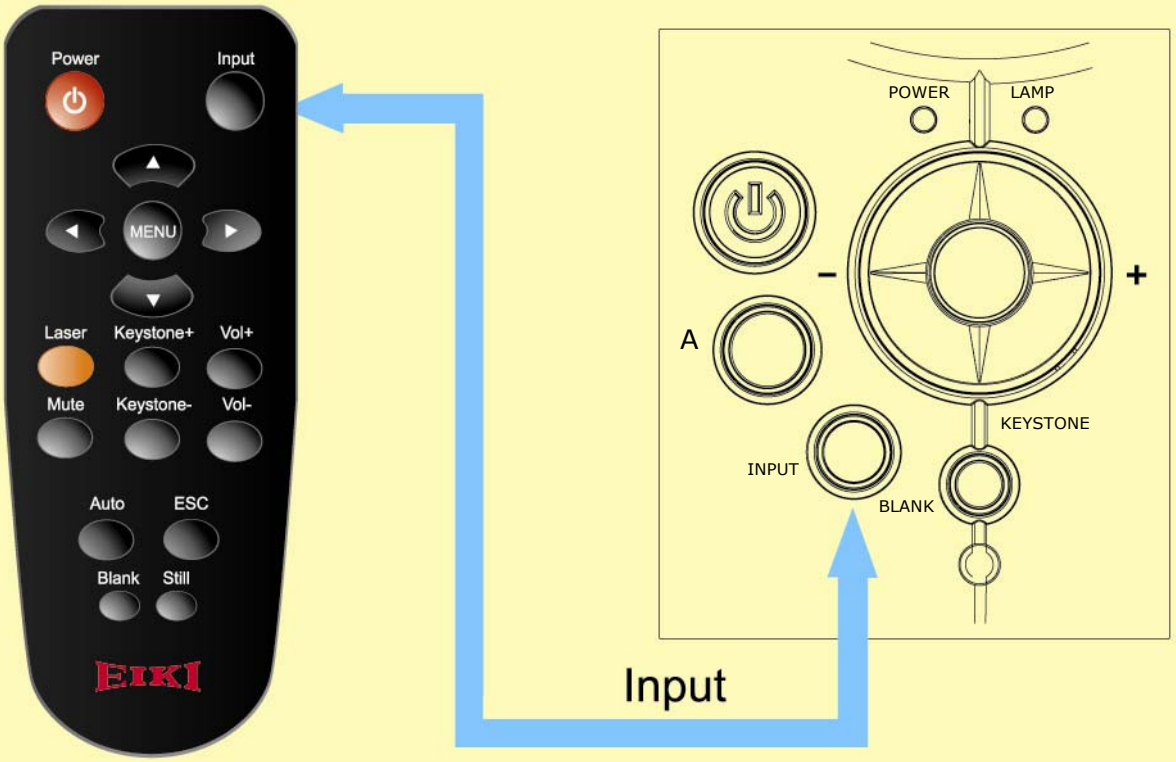
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 10-B: Turning on the projector

⚠ **WARNING** If no image are projected, change the input signal.



When using a laptop or a PC with an in built monitor, select external video output on the computer.

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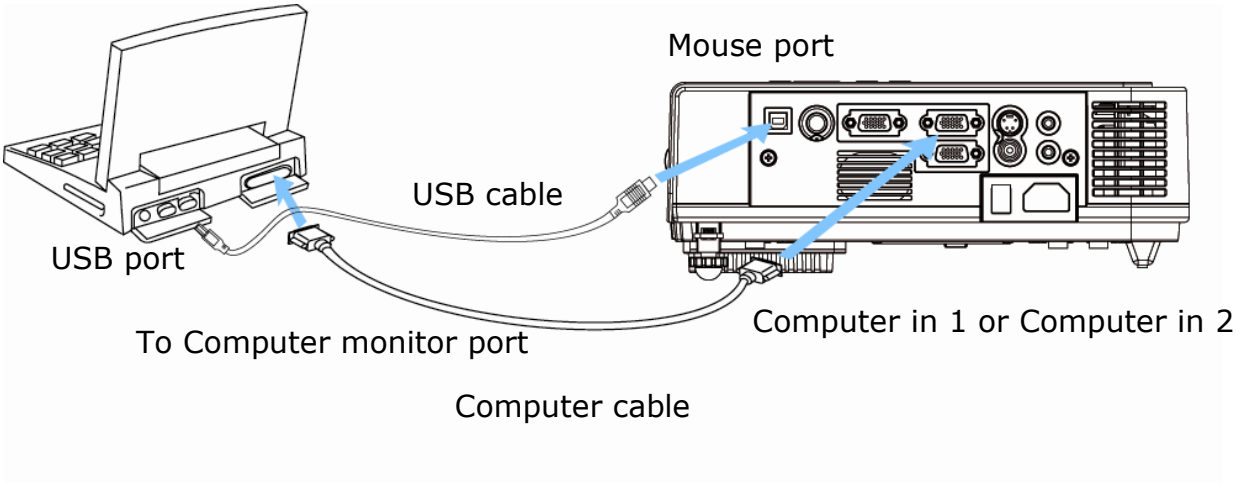
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step 11: Connecting PC to the projector

To connect Computer cable (RGB) first then USB cable.



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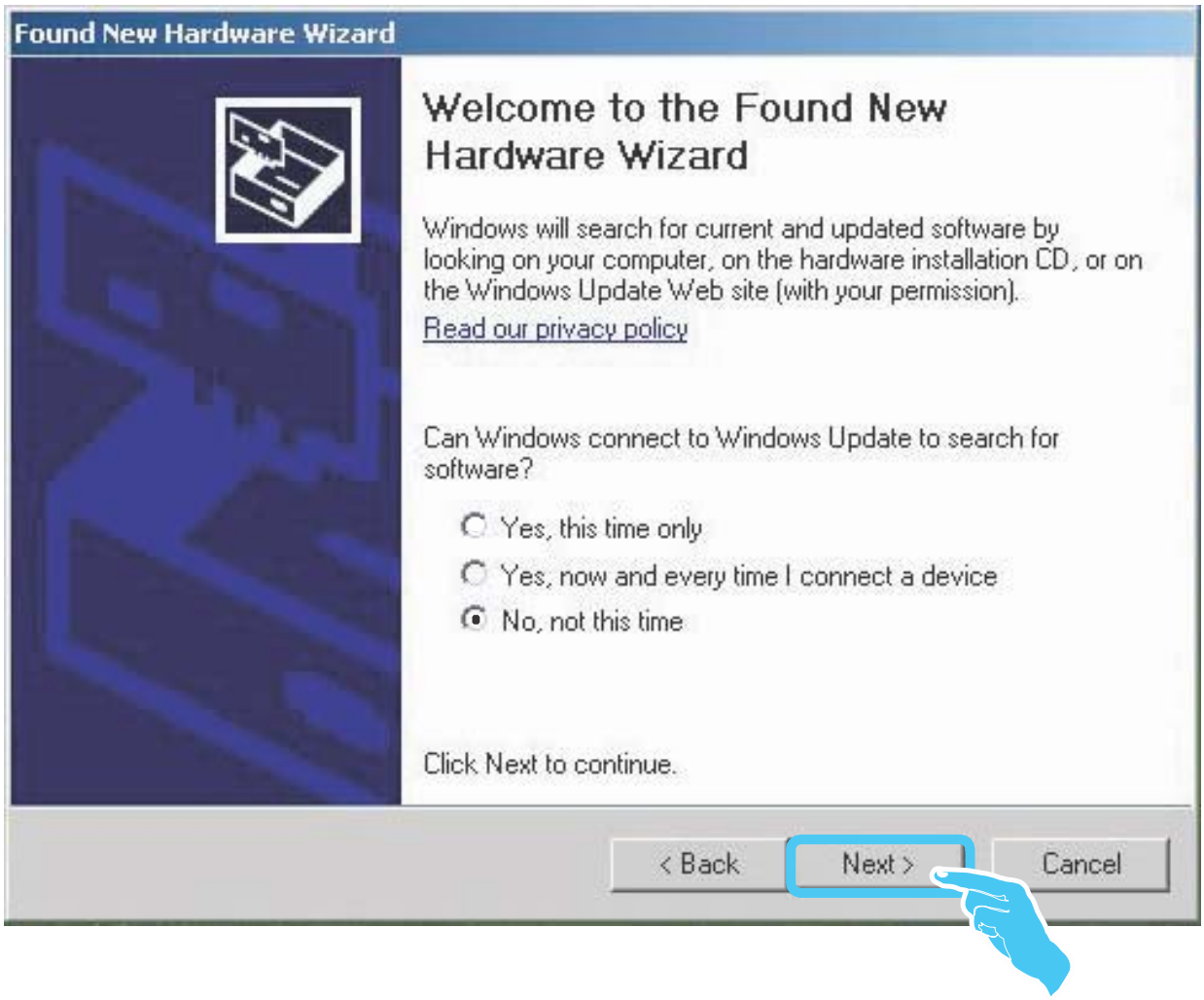
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step12 : Select “No, not this time” than “Next”


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

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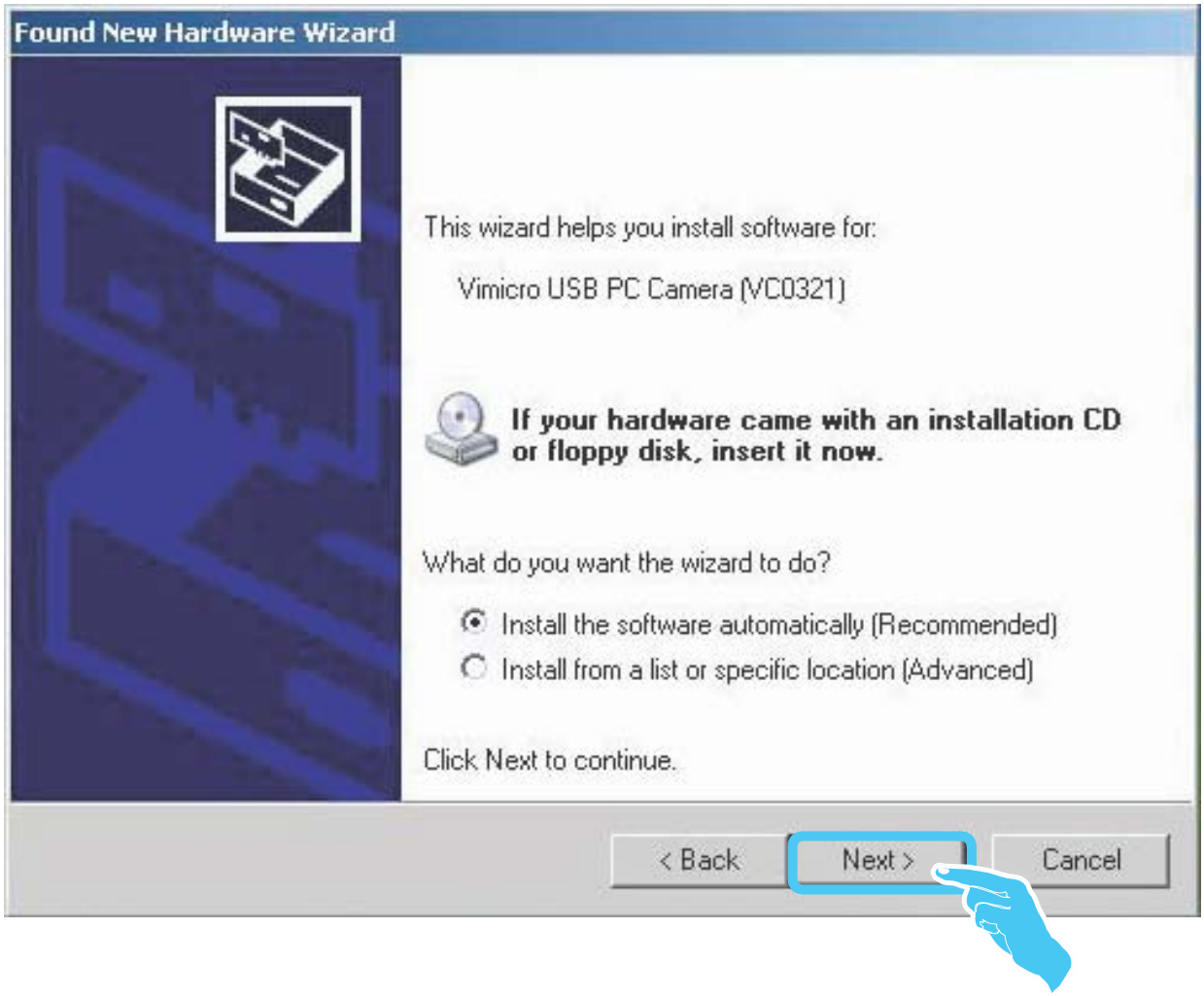
Software and Hardware install

2.Section two : Software and Hardware driver installation

Step13: Next


Found New Hardware Wizard
This wizard helps you install software for:
Vimicro USB PC Camera (VC0321)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

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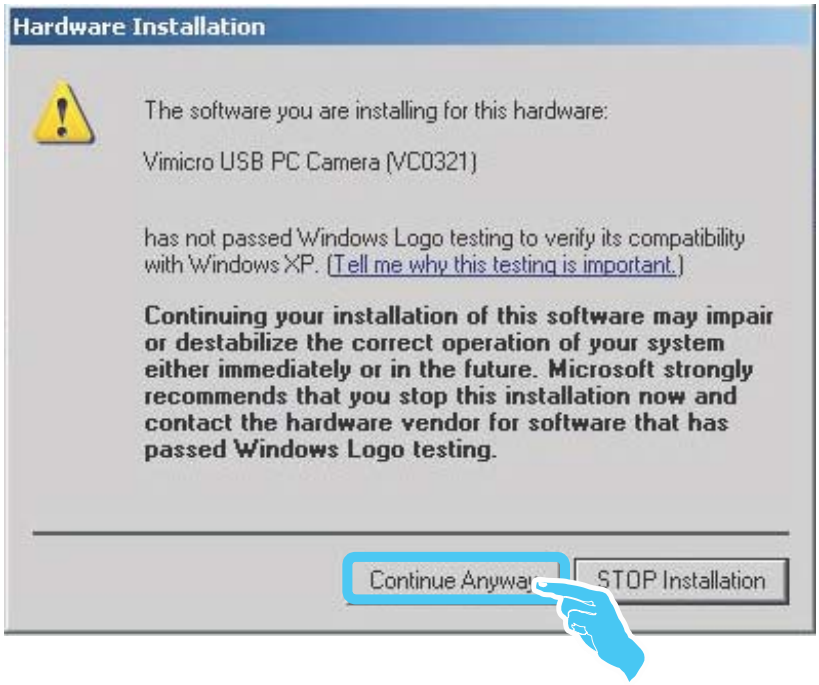
Software and Hardware install

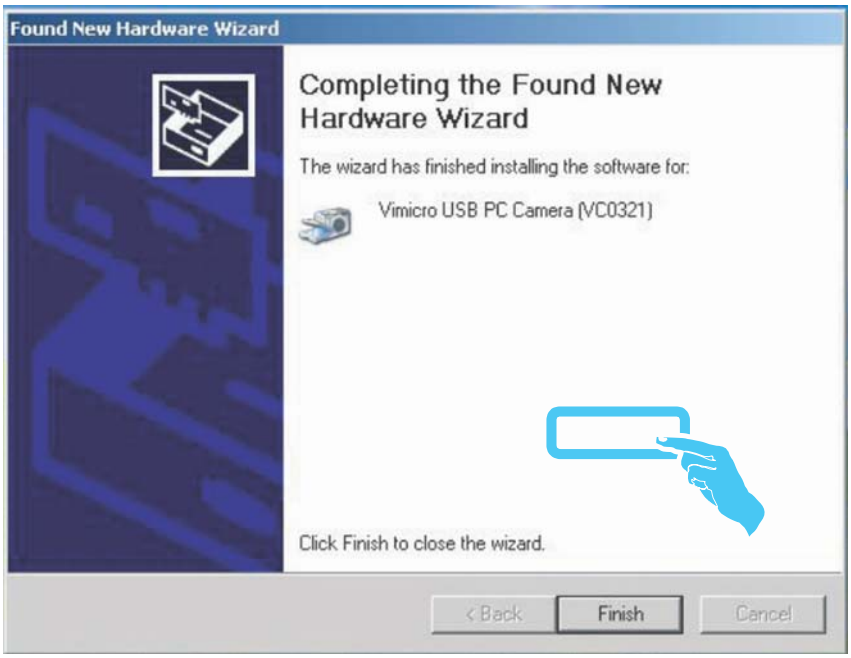
2.Section two : Software and Hardware driver installation

Step14: Continue Anyway


Hardware Installation
The software you are installing for this hardware:
Vimicro USB PC Camera (VC0321)
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

NOTE: We confirmed that installation of this software will not impair or destabilize the correct operation of your system.

Step15: Finish


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Vimicro USB PC Camera (VC0321)
Click Finish to close the wizard.
< Back
Finish
Cancel

"LightPen" shortcut will be added on the window desktop automatically.

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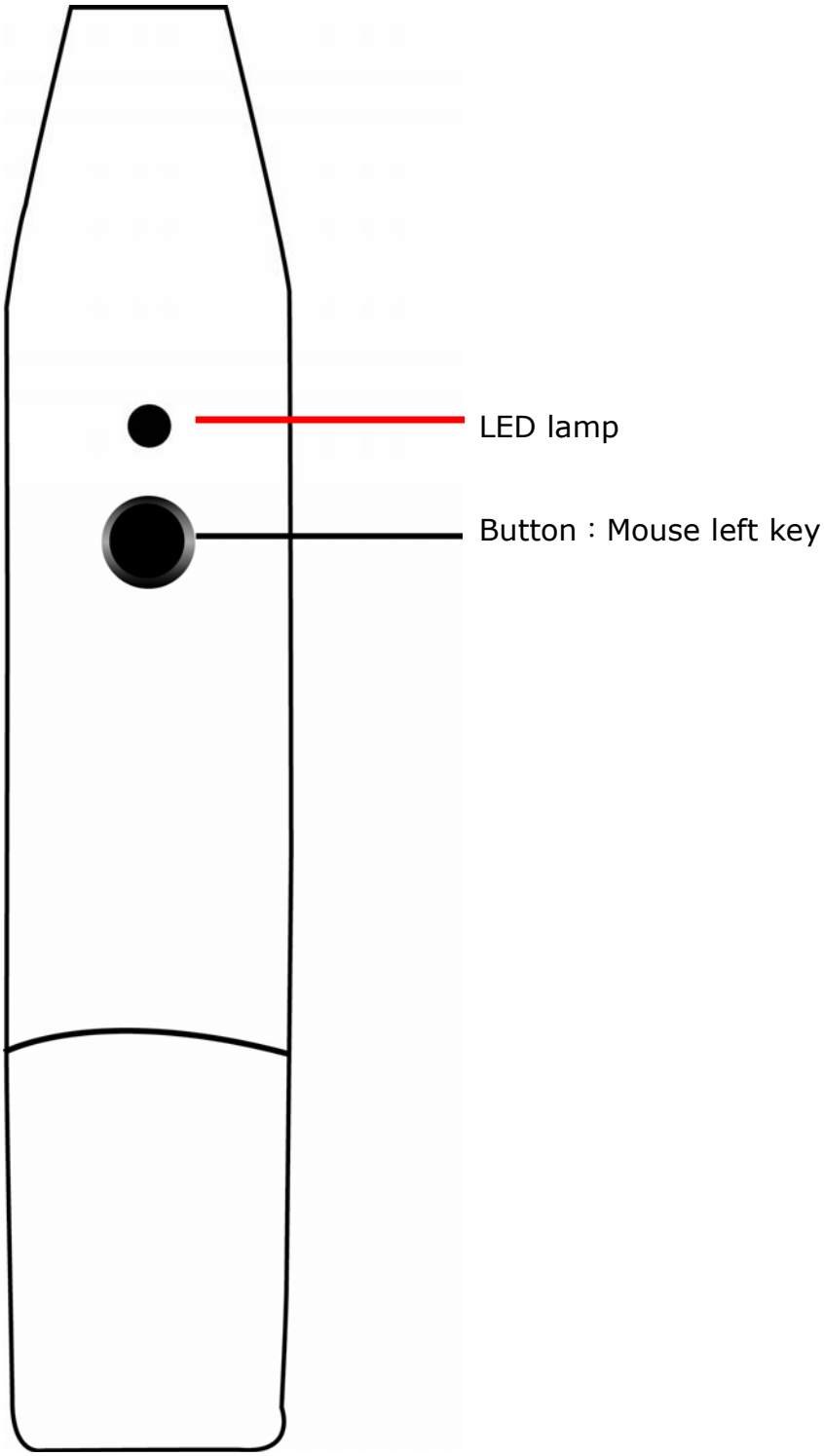
3.Section three: Functional key of "Pointer"



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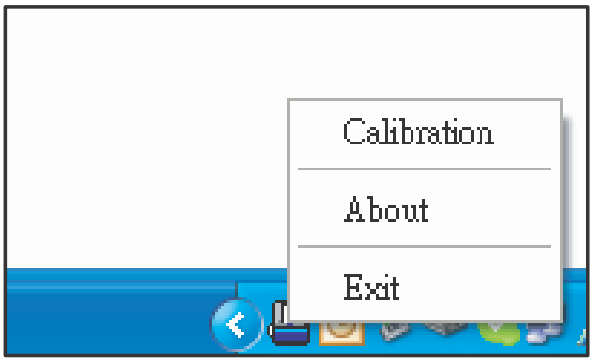
4.Section four: Calibration

Step 1: Execute "LightPen" shortcut

on the Windows desktop.

Step 2: Select "LightPen" from toolbar then click mouse right key for Calibration.



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4.Section four: Calibration

Step 3: Push the button of "Pointer" and point to the "center of green cross target" from upper-left of screen to lower-right of screen orderly. There are nine targets totally. No more green target on the screen means you've completed the calibration procedure. To keep the angle of "Pointer" as constant as possible during the calibration for more accurate positioning.

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4.Section four: Calibration

How to play function of “Mouse right key”?
⟶ Point to top or down of screen outside than push the button of “Pointer”.

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4.Section four: Calibration

There is another quick way to change the position of icon or hide it.
Point to left or right of screen outside then push the button of “Pointer”.

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5.Section five: Function of icon

Icon position

Push the button of "Pointer" to select icon's position on either the right-side or left-side of screen.

Mouse

Pen

Eraser

Select the fineness of pen

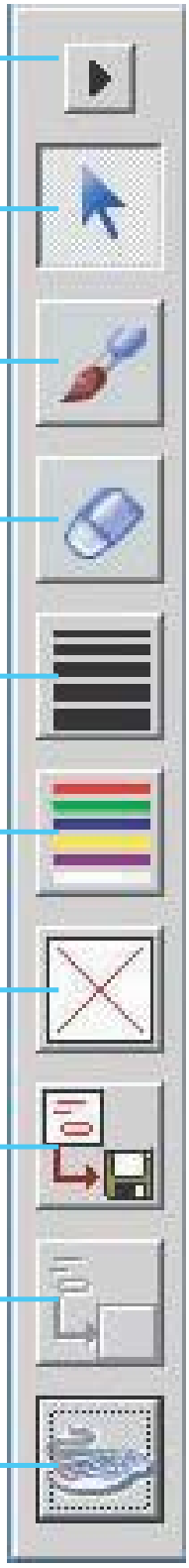
Select the color of pen

Erase all

Save files

Redraw

Virtual keyboard



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Desktop PC

Before starting, make sure that the projector and computers are both turned off.

1. **Connect the computer cable.**
   Connect either end of the computer cable to the projector's Computer in 1 or Computer in 2

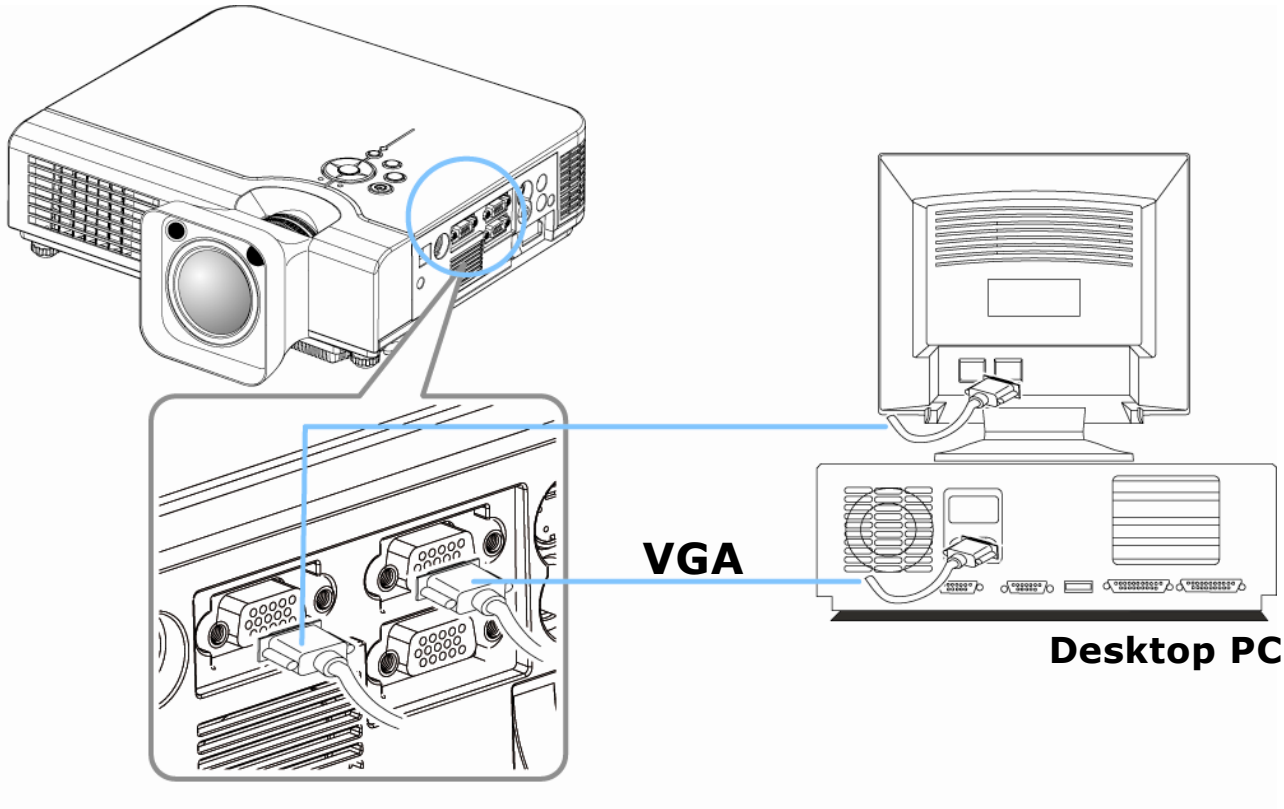
   Disconnect the monitor cable from the computer and connect the other end of the terminal where the monitor cable is disconnected from the computer.

   If needed, connect the monitor cable of the computer monitor to the projector's Monitor Out.

   Tighten the screw on all connectors.

2. **Connect the audio cable if necessary.**
   Connect one end of the audio cable to the Audio in jack on the projector.

   Connect the other end of the audio cable to the audio output port on the computer sound card.



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Laptop PC

Before beginning, make sure that the projector and computers are both turned off.

1. **Connect the computer cable.**
   Connect either end of the computer cable to the projector's Computer in 1.

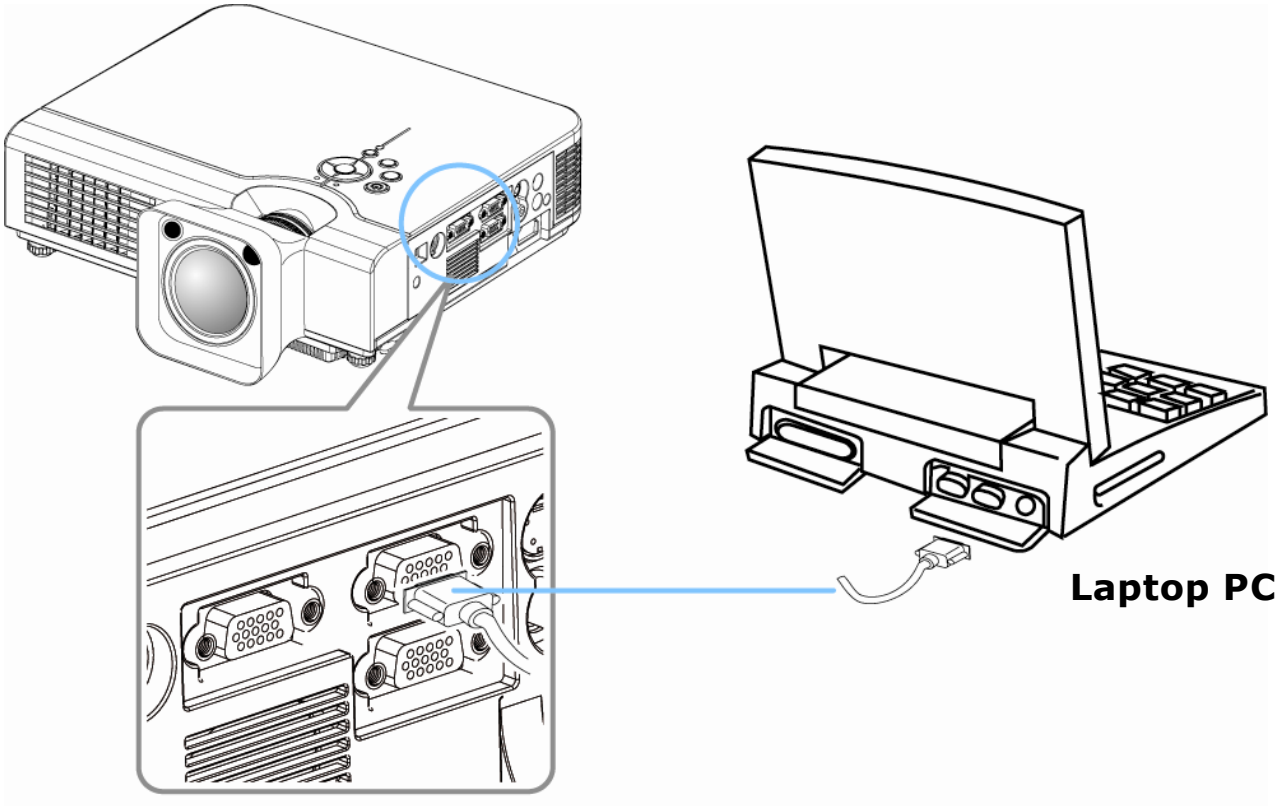
   Connect the other end of the project cable to the monitor out connection on the laptop.

   Tighten the all connectors.

2. **Connect the audio cable if necessary.**

   Connect one end of the audio cable to the Audio in jack on the projector.

   Connect the other end of the audio cable to the audio output port on the laptop PC.



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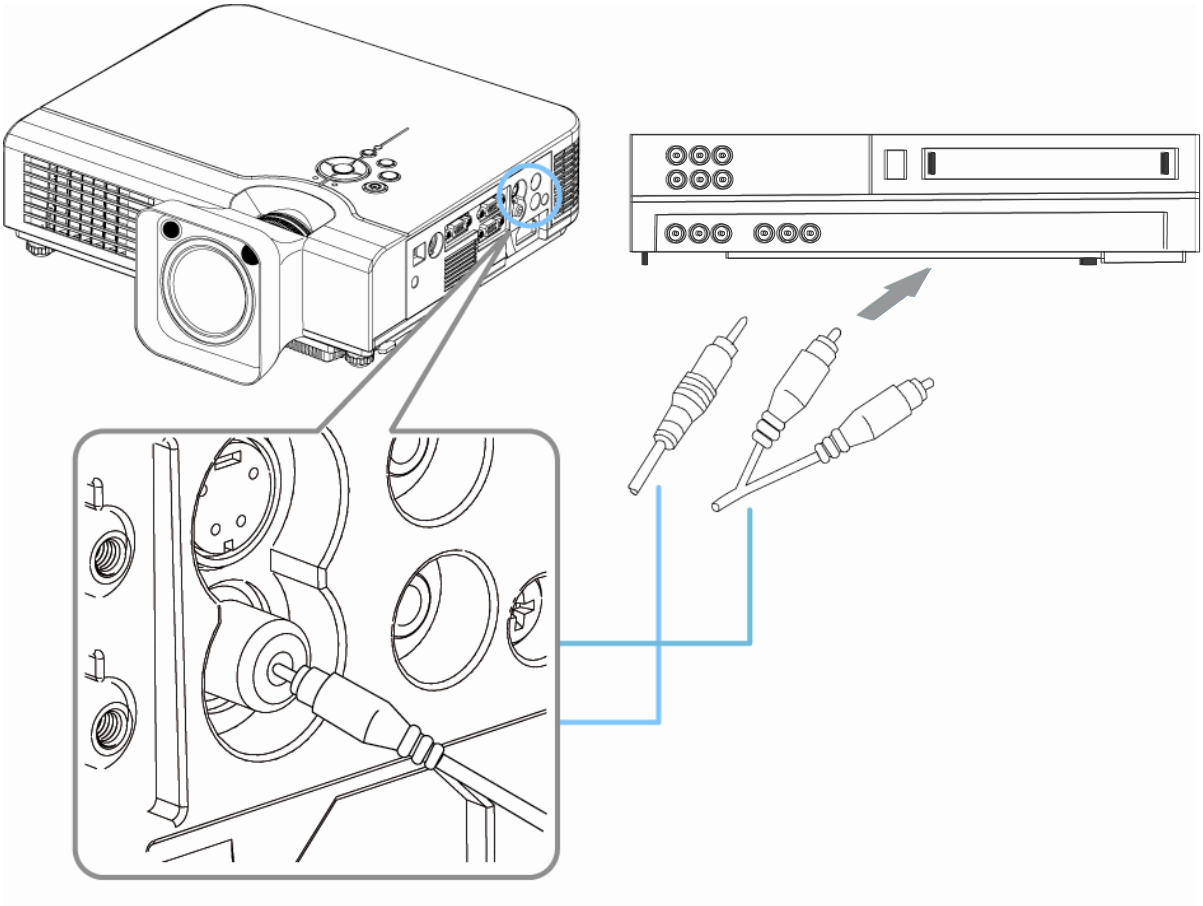
Video

1. Connect to a video source

The Projector can receive composite AV ,YPbPr and S-Video. Connect RCA plug at projector and video source (like DVD player) for video signal. Please contact with your dealer for optional cable.

2. Connect RCA plug (white and red) to audio source (like DVD player) and connect the phone jack to projector for audio signal.



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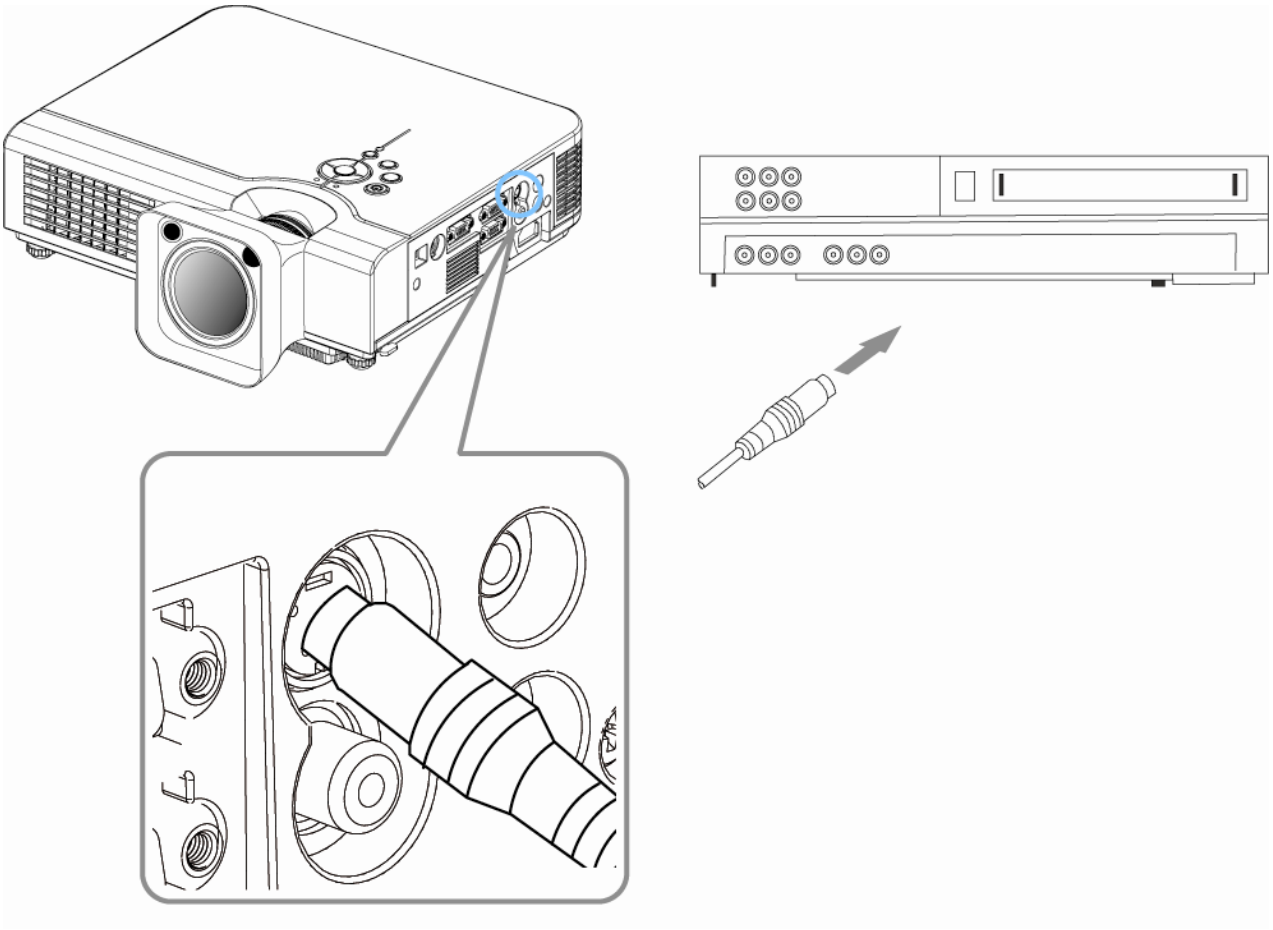
Video

3. Connect YPbPr plug at projector computer in 2 port and video source (like DVD player) for video signal.

4. For S-Video, using S-Video cable connect to projector and video source for video signal.



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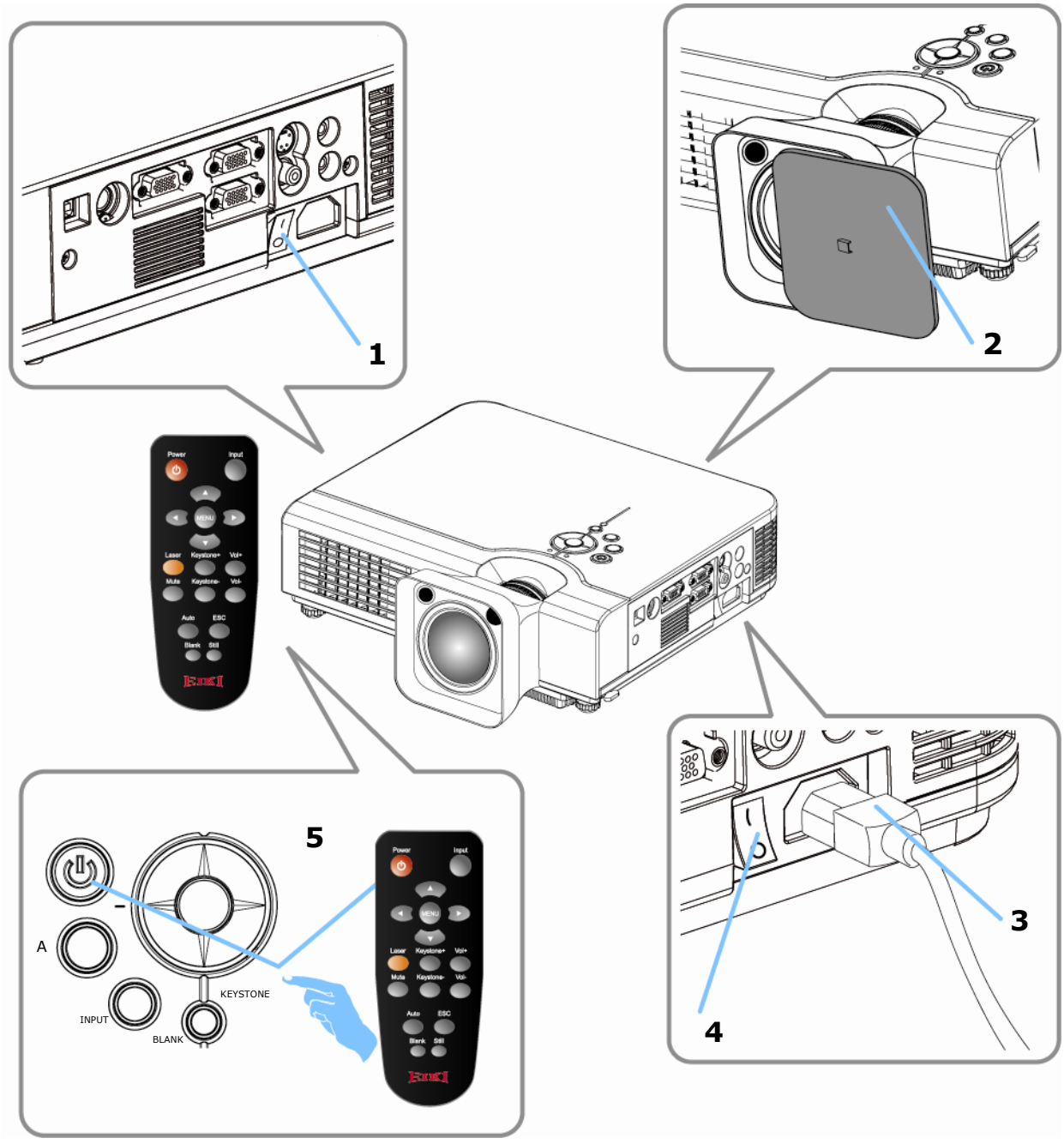
Turning on the projector - Procedure

1. Check the power is turned off for the projector and all components connected to the projector.
2. Remove the lens cover.
3. Connect the power cord to the projector.
4. Turn on the power switch.
5. Press the button on the control panel or [POWER] button on the remote control.



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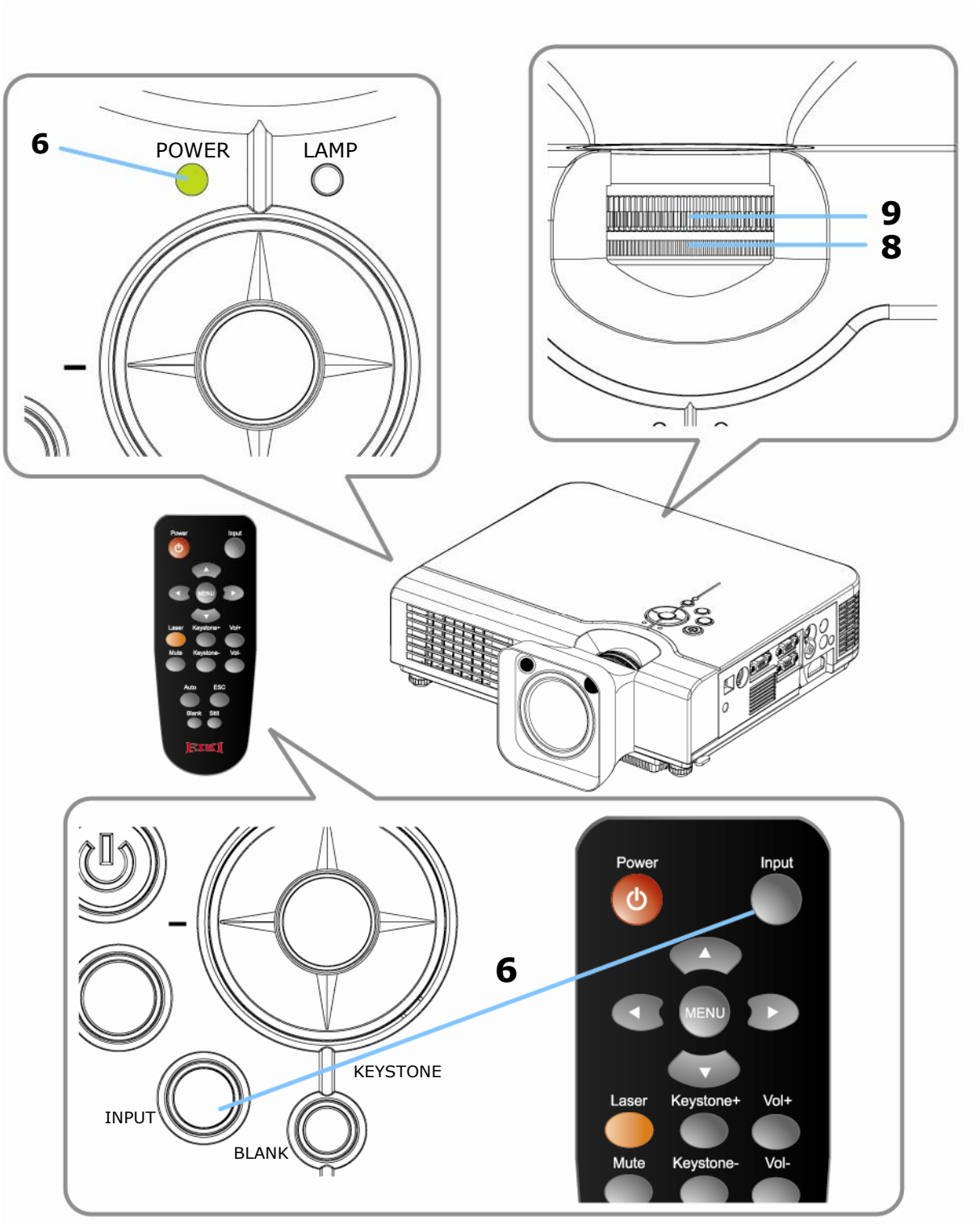
Turning on the Projector - Procedure

6. The power indicator will flash green.

7. Press the Input button on the control panel or on the remote control to select the appropriate source.

8. Rotate the zoom ring to adjust the screen size.

9. Rotate the focus ring to adjust the focus.



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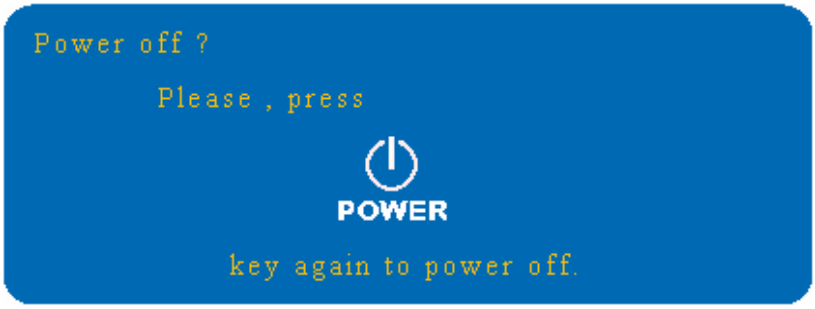
Turning off the Projector - Procedure

1. Press the power button on the projector or remote control. The power off confirmation message appears .



2. Press the power button again and the projector will enter cool-down mode. The lamp shuts off, the lamp indicator flashes red, and the fans continue to run for approximately two minutes. During the cool down sequence the projector will not respond to any control panel or remote control buttons.

⚠ **CAUTION**	Do not set the power switch to off or unplug the projector during the cool-down sequence. Not allowing the lamp to cool properly will greatly reduce the life of the lamp.

3. After the cool-down sequence is completed the fans will shut off and the lamp indicator will stop flashing. The projector is now in standby mode and can be turned back on with the remote control or control panel. If the projector will not be used for an extended period, set the power switch to off and disconnect the power cord.

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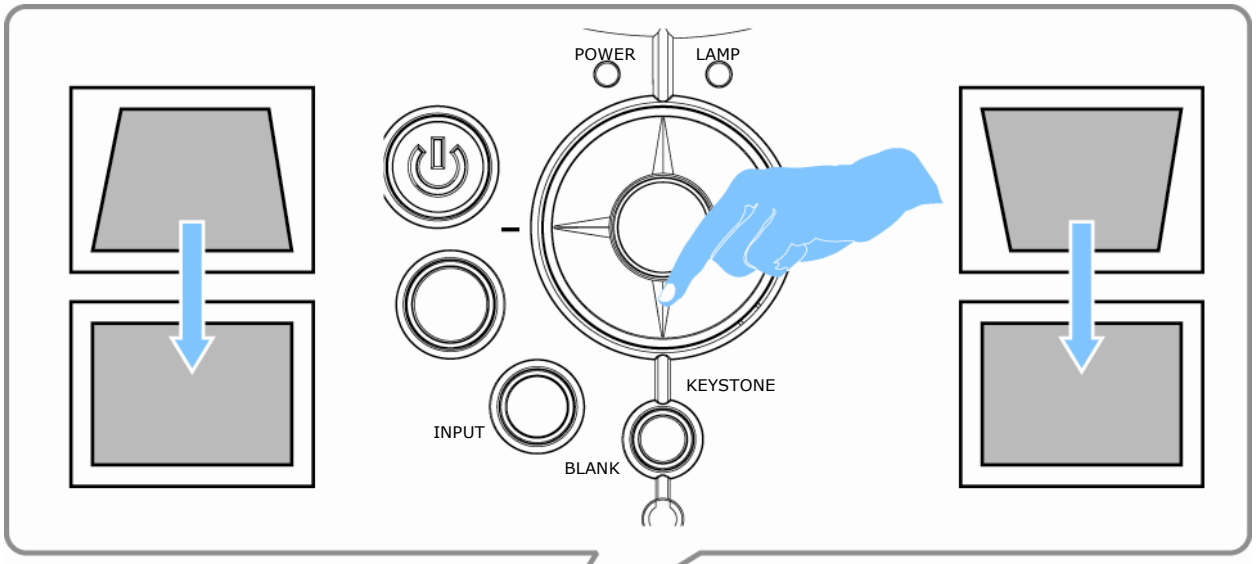
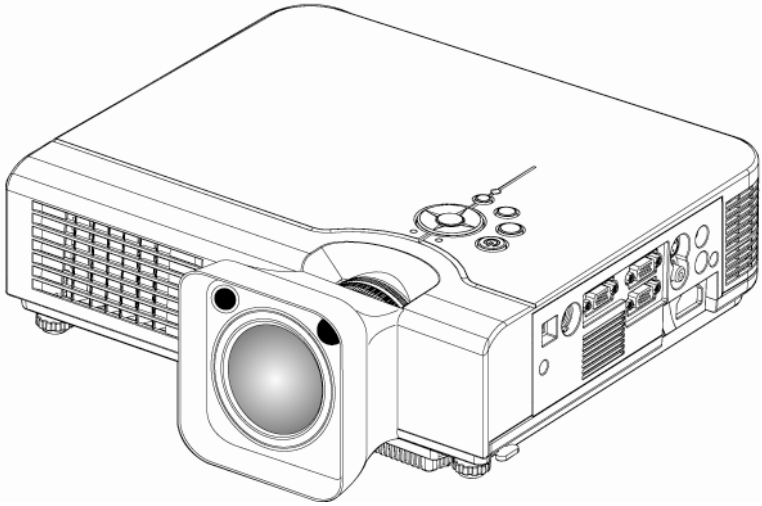
Adjust the Screen Image

1. **Adjusting the image size**
   Rotate the Zoom Ring to adjust the image.
2. **Adjusting the image height**
   Extend or retract the front adjustable foot to adjust the height of the image.
3. **Correcting Keystone Distortion**
   - ◆ Press the Keystone button on the control panel.
   - ◆ Keystone correction message will be appeared.
   - ◆ Press ”Left/Right” button to correct Keystone distortion.



Press ”Left button” to correct keystone distortion.

Press ”Right button” to correct keystone distortion.



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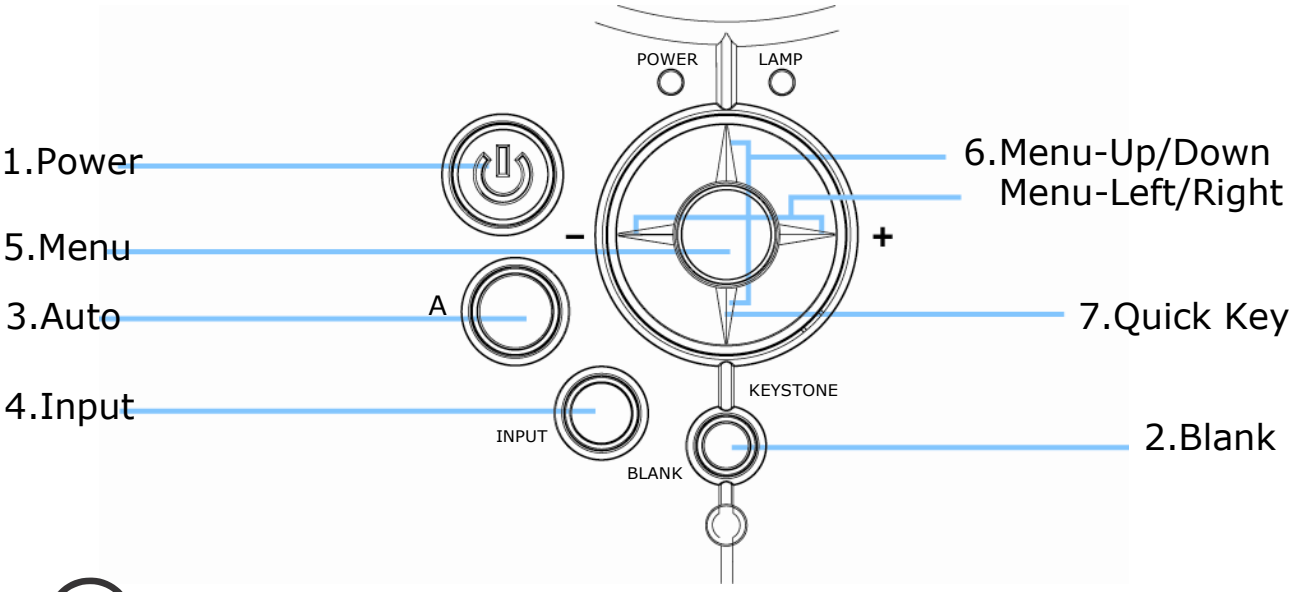
Functions of Menu (OSD)

Keypad Operating:



1. Turn on and turn off the projector

2. Blank : Blanks the projected image. If the projector is left in Blank mode for more than 15 minutes,the projector will automatically shut off the lamp and enter cool-down mode.

3. Auto : Automatically adjusts the settings to match the current input.

4. Input : Selects VIDEO or PC input source.

5. Menu : Enter or exit the main menu (Show and hide the OSD)

6. : Up / Down arrow buttons, used to navigate through the OSD Menus.

: Right / Left arrow buttons, used to select and adjust OSD Menu functions.

7. Quick Key : It can be selected the "Keystone/Brightness/ Contrast/Volume" by pressing "bottom" of MENU button and adjusted by pressing "Left/Right" bottom of MENU button on the control panel or remote control.

There is a "Quick Key" on the remote control and projector keypad as well.

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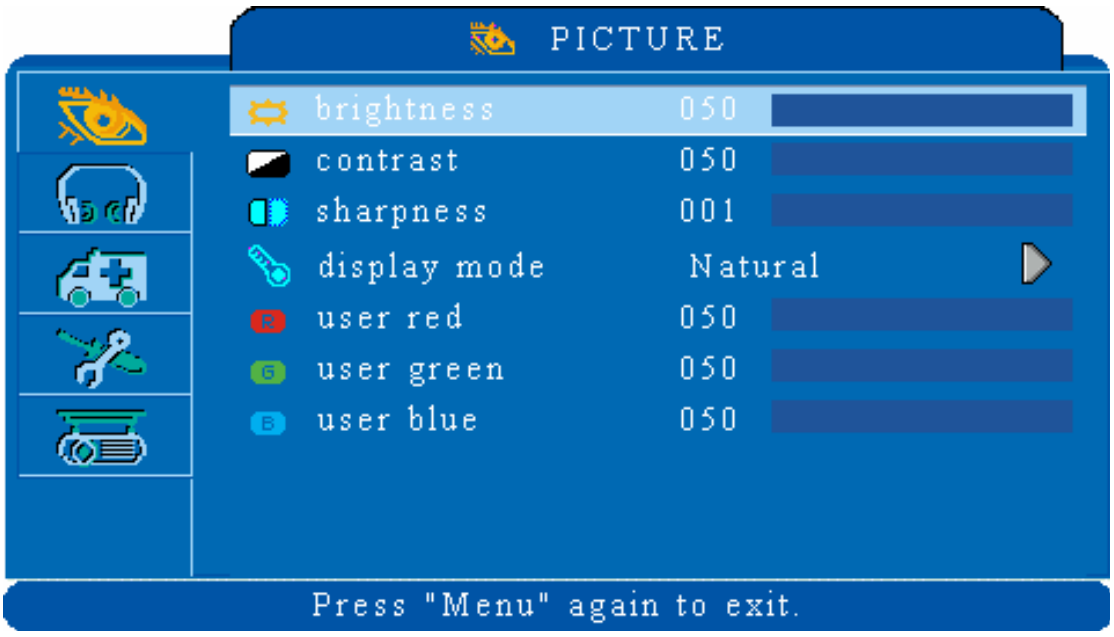
Computer Mode-Picture Menu



1. PICTURE		
Brightness	000/100	Adjusts the overall image brightness
Contrast	000/100	Adjusts the difference between light and dark areas of the image
Sharpness	000/002	Adjusts the image sharpness
Display mode		Select
	Video Presentation Natural Green board User	Keep the soft tender color For computer presentation use Nature color When using on green board Adjustments of each RGB color
	User Red User Green User Blue	000/100 000/100 000/100

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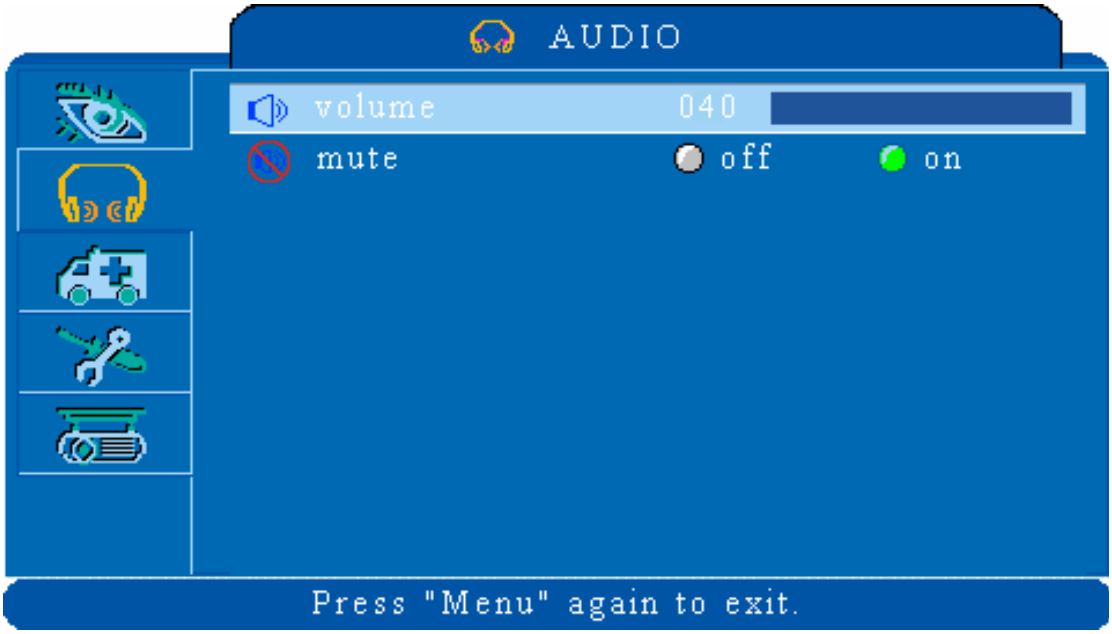
Computer Mode-Audio Menu



2. AUDIO		
Volume	000/040	Adjusts the volume
Mute	Off/on	Mutes the volume on/off

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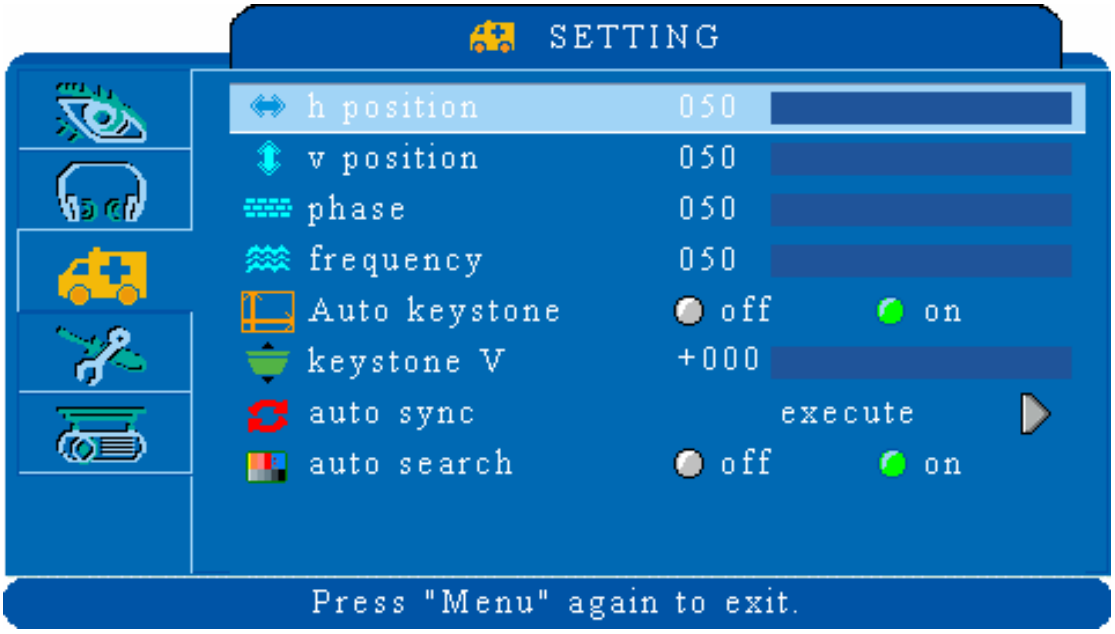
Computer Mode-SETTING Menu



3.SETTING		
H position	000/100	Move the image position horizontally
V position	000/100	Move the image position vertically
Phase	000/100	Set the synchronization polarity
Frequency	000/100	Set the horizontal scanning frequency
Auto keystone	off/on	Automatically Corrects keystone distortion in image i.e. press once to do once
Keystone V	-80/+80	Corrects vertical keystone distortion in image
Auto sync	execute	Sets all of the above settings automatically
Auto search	off/on	Search signal source automatically.

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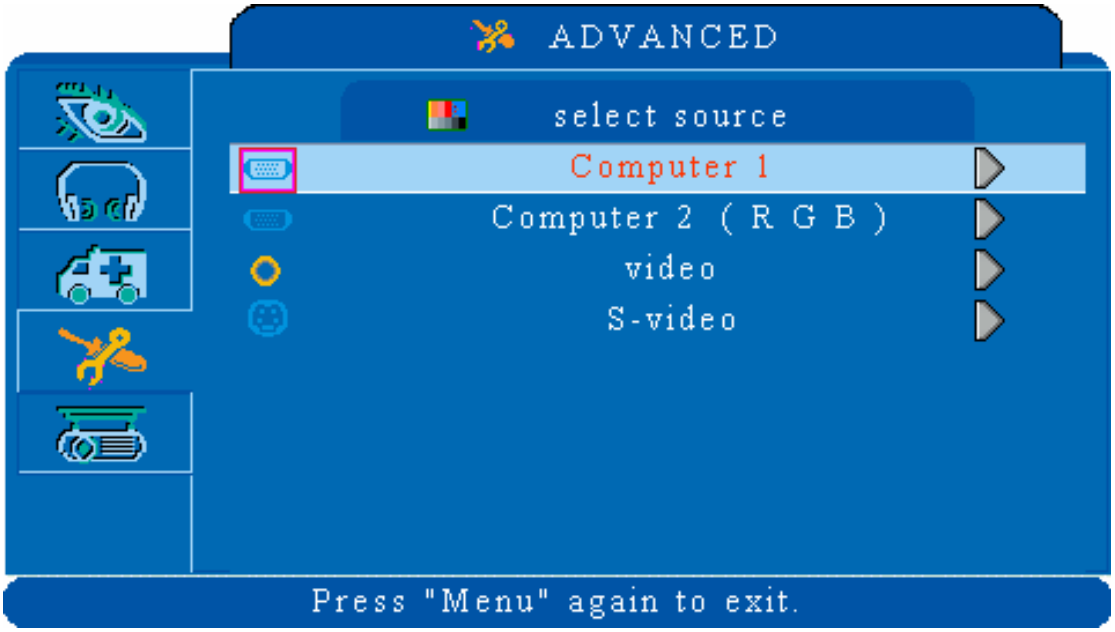
Computer Mode-ADVANCED Menu



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Computer Mode-ADVANCED Menu

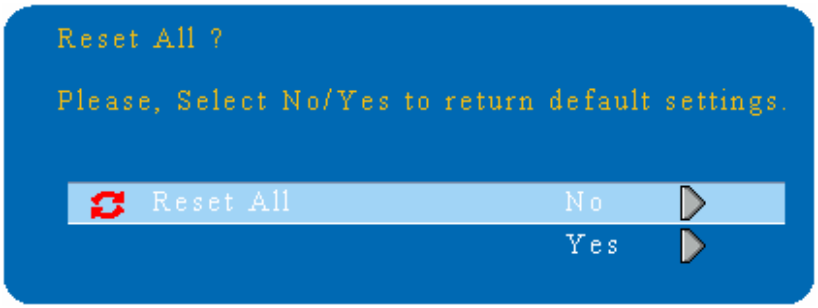
4.ADVANCED		
Zoom/pan	execute	Execute digital zoom and pan function
Still	on/off	Freezes the current image on the screen.
Blank	on/off	Hide the image, displays a blank, black screen*(see below)
Reset all	execute	Resets all OSD Menu function to their factory default values*(see below)
Language	English	Select the language that the OSD Menu and on screen massage are display in English / German / French / Spanish / Italian / Portuguese / Dutch / Swedish / Chinese(Simplied-Tranditinal) / Korean / Russian / Japanese
Resize		4:3
Select source	execute	Select the input source from: Computer 1 / Computer 2 (RGB or YPbPr) / Video / S-Video
logo	on/off	on—factory-set logo off—blue image only.
scale mode	Normal/True	Provide the image in its original size. When the original image size larger than the screen size (1024x768), this projector enters panning mode automatically.

Blank on

If the projector is left in Blank mode for more than 15 minutes, the projector will automatically shut off the lamp and enter cool-down mode.

Reset all

1. After you select [reset all] on the OSD menu, the following confirmation message will appear on the screen.



2. Press reset button on the remote control or the button on the control panel to reset the OSD Menu values. Press the ESC button or ignore the message to exit the Reset All function without changing any settings.

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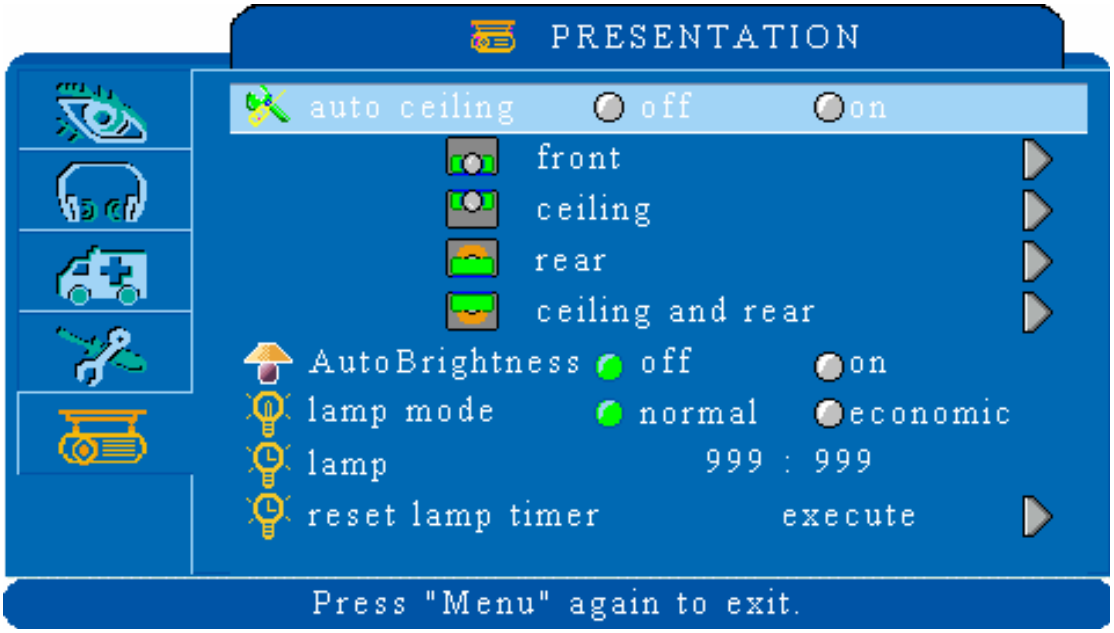
Computer Mode-PRESENTATION Menu



5.PRESENTATION		
Auto ceiling	off/on	Automatically inverts the image when the projector is turned upside down i.e. when the projector is mounted on the ceiling
Front	execute	Normal projection mode
Ceiling	execute	Inverts the image vertically, used when the projector is mounted upside down
Rear	execute	Inverts the image horizontally, used when projecting onto a rear projection screen
Ceiling and Rear	execute	Inverts the image horizontally and vertically, used when the projector is mounted upside down and projecting onto a rear projection screen
Auto Brightness	off/on	Auto detects brightness; it turns to economic mode automatically when the brightness is low.
Lamp mode	normal economic	Economic mode reduces the lamp brightness economic to extend lamp life and quiet the projector
Lamp		Show Lamp timer
Reset lamp timer (optional)	execute	After changing a new lamp,execute this function for reset the Lamp timer. (see below)

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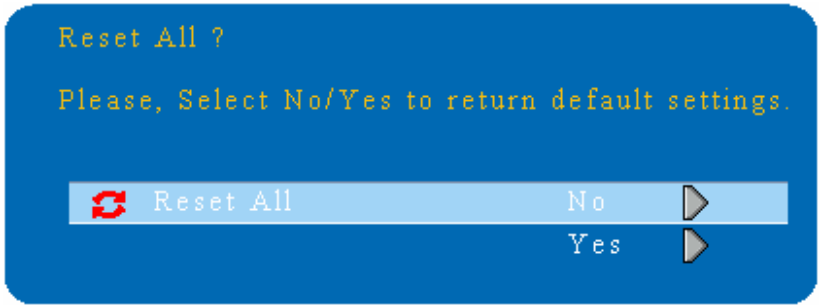
Reset Lamp Timer

1. After you select〔Reset Lamp Timer〕on the OSD menu, the following confirmation message will appear on the screen.



2.You choose〔Yes〕,the Lamp Mode show〔0〕.

* The replacement warning message is set to appear after about 2000 hours of lamp use in order to maintain the brightness and quality of the projected images. When the lamp replacement message appears, replace the lamp(part number 23040007) with a new one as soon as possible, even if it is still working.

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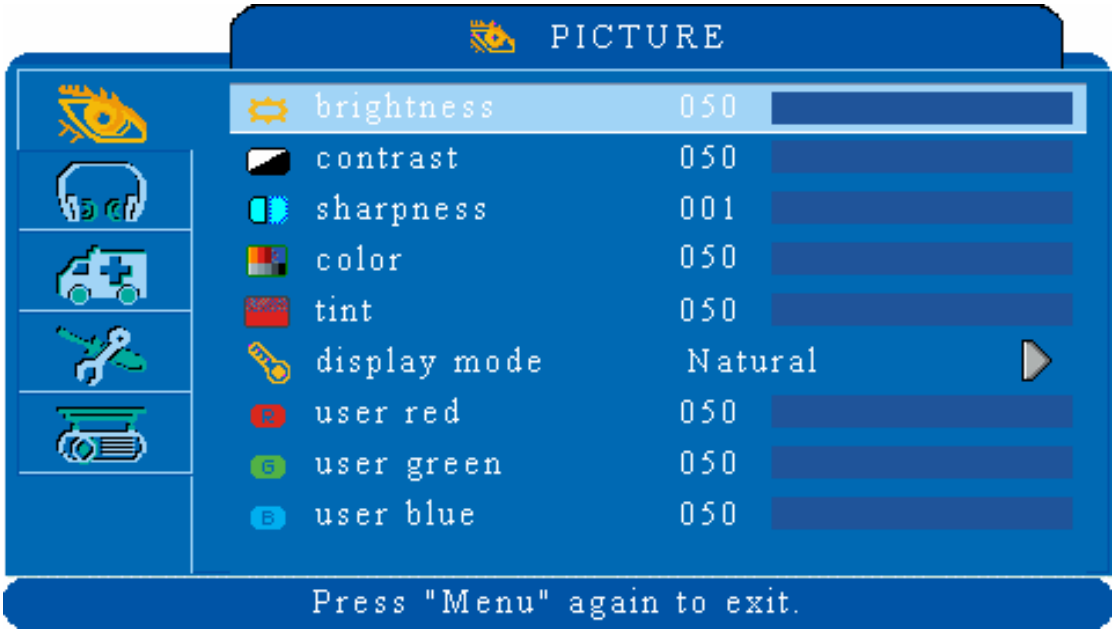
Video Mode-Picture Menu



1. PICTURE		
Brightness	000/100	Adjusts the overall image brightness
Contrast	000/100	Adjusts the difference between light and dark areas of the image
Sharpness	000/002	Adjusts the image sharpness
Display mode		Select
	Video Presentation Natural Green board User	Keep the soft tender color For computer presentation use Nature color For Green board uses adjustments of each RGB color
	User Red User Green User Blue	000/100 000/100 000/100

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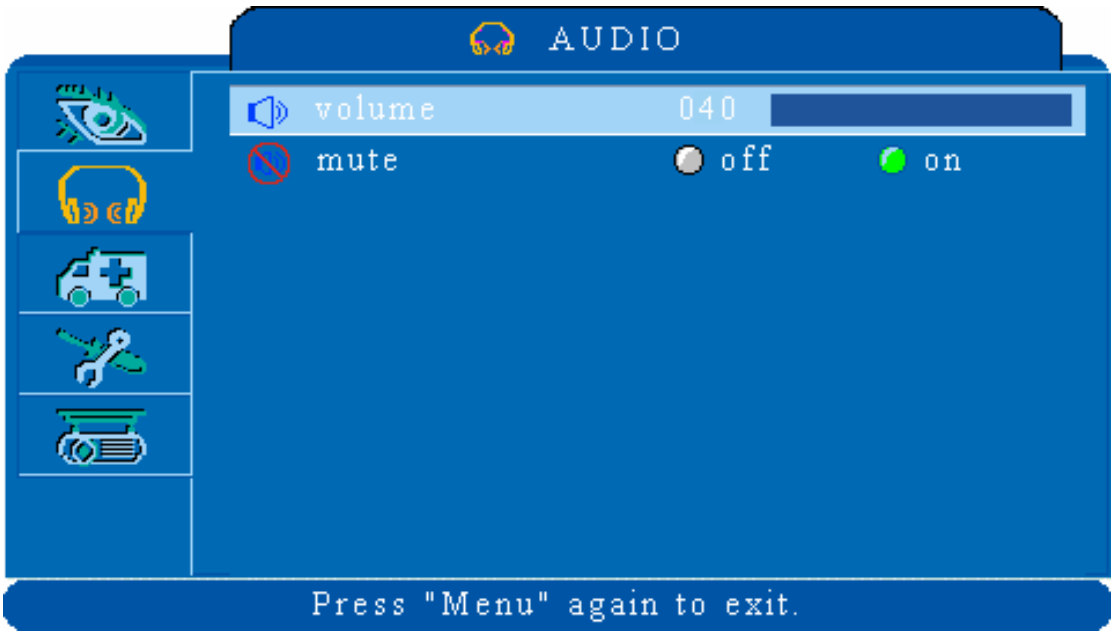
Video Mode-Audio Menu



2. AUDIO		
Volume	000/040	Adjusts the volume
Mute	Off/on	Mutes the volume on/off

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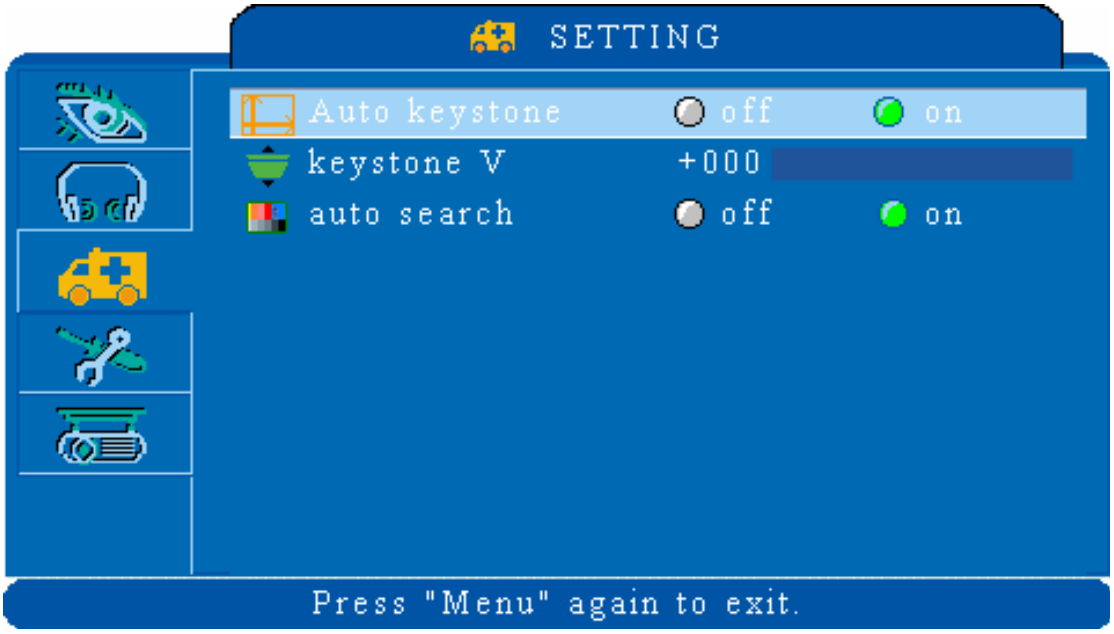
Video Mode-Setting Menu



3.SETTING		
Auto keystone	off/on	Automatically Corrects keystone distortion in image i.e. press once to do once
Keystone V	-80/+80	Corrects vertical keystone distortion in image
Auto search	off/on	Search signal source automatically.

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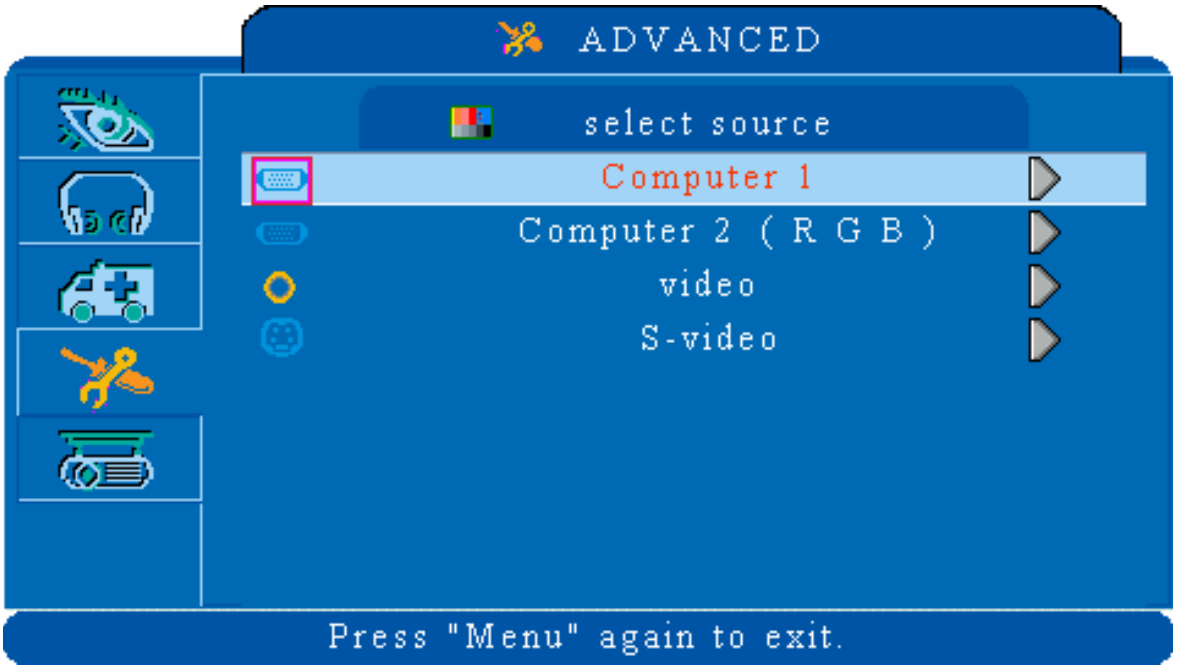
Video Mode-Advanced Menu



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Video Mode-Advanced Menu

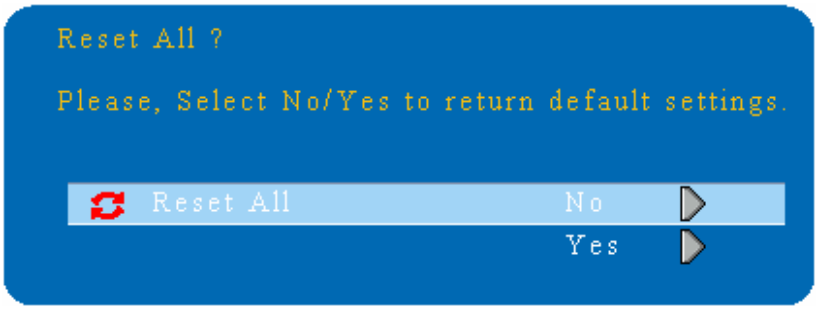
4.ADVANCED		
Zoom/pan	execute	Execute digital zoom and pan function
Still	on/off	Freezes the current image on the screen.
Blank	on/off	Hide the image, displays a blank, black screen*(see below)
Reset all	execute	Resets all OSD Menu function to their factory default values*(see below)
Language	English	Select the language that the OSD Menu and on screen massage are display in English / German / French / Spanish / Italian / Portuguese / Dutch / Swedish / Chinese(Simplied-Tranditinal) / Korean / Russian / Japanese
Resize		4:3
Select source	execute	Select the input source from: Computer 1 / Computer 2 (RGB or YPbPr) / Video / S-Video
logo	on/off	on—factory-set logo off—blue image only.
scale mode	Normal/True	Provide the image in its original size. When the original image size larger than the screen size (1024x768), this projector enters panning mode automatically.

blank on

If the projector is left in Blank mode for more than 15 minutes, the projector will automatically shut off the lamp and enter cool-down mode.

Reset all

1. After you select [reset all] on the OSD menu, the following confirmation message will appear on the screen.



2. Press reset button on the remote control or the button on the control panel to reset the OSD Menu values. Press the ESC button or ignore the message to exit the Reset All function without changing any settings.

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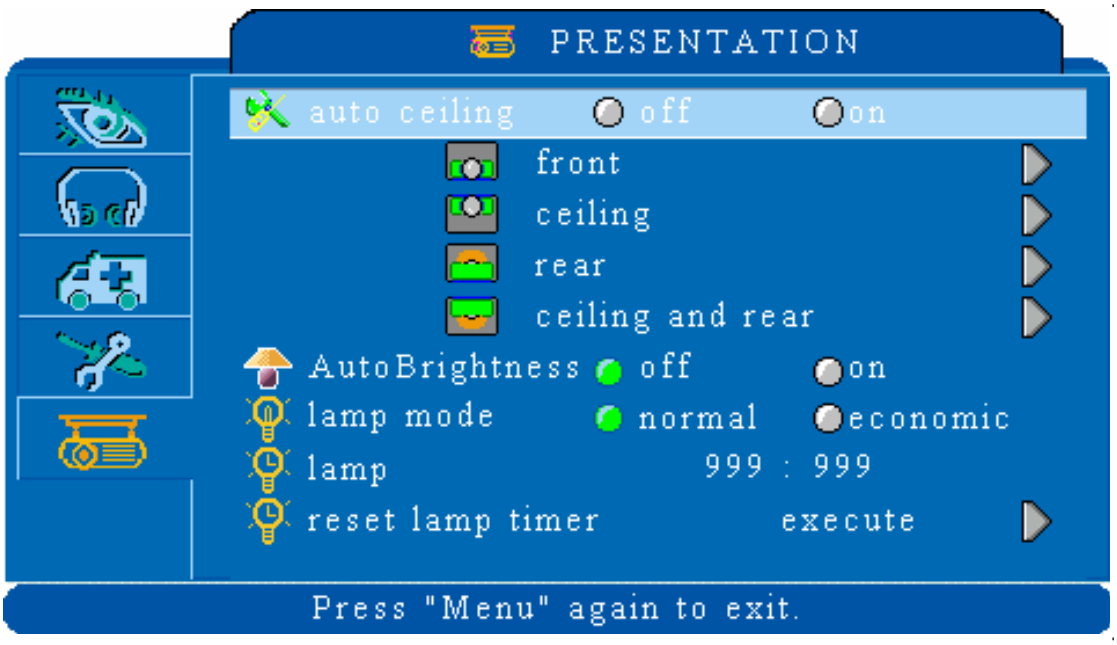
Video Mode-PRESENTATION Menu



5.PRESENTATION		
Auto ceiling	off/on	Automatically inverts the image when the projector is turned upside down i.e. when the projector is mounted on the ceiling
Front	execute	Normal projection mode
Ceiling	execute	Inverts the image vertically, used when the projector is mounted upside down
Rear	execute	Inverts the image horizontally, used when projecting onto a rear projection screen
Ceiling and Rear	execute	Inverts the image horizontally and vertically, used when the projector is mounted upside down and projecting onto a rear projection screen
Auto Brightness	off/on	Auto detects brightness; it turns to economic mode automatically when the brightness is low.
Lamp mode	normal economic	Economic mode reduces the lamp brightness economic to extend lamp life and quiet the projector
Lamp		Show Lamp timer
Reset lamp timer (optional)	execute	After changing a new lamp,execute this function for reset the Lamp timer. (see below)

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Technical Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D) (excluding adjustable feet)	12.20” x 3.78” x.10.63” (310 mm x 96 mm x 270 mm)
Net Weight	7.7 lbs (3.5 kg)
Feet Adjustment	0° to 14°

Panel Resolution

LCD Panel System	0.63” TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480p, 720p and 1080i
Scanning Frequency	H-sync. 15 kHz–69 kHz, V-sync. 43–85 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40” to 300” (Interactive smart function is available form 50”~150”)
Throw Distance	2.6’–19.8’ (0.8 m–6.0 m)
Projection Lens	F1.6–1.88 lens with f18.6 mm–22.3 mm with manual zoom and focus
Projection Lamp	200 W

Interface

Video Input Jack	RCA Type x 1
S-video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	Mini Jack x 1
Computer Input	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Computer Input	Analog RGB (Mini D-sub 15 pin) Terminal x 1 / YPbPr
Monitor Output	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Service Port	Connector Mini DIN 8 pin x 1
USB Connector	USB Series B connector x 1
Audio Output Jack	Mini Jack x 1

Audio

Internal Audio Amp	3.0 W RMS
Built-in Speaker	2 W mono

Power

Voltage and Power Consumption	AC 100–120 V , 50/60 Hz (The U.S.A and Canada) AC 200–240 V , 50/60 Hz (Continental Europe) 250W(ECO mode 210W) ,Standby 2W

Operating Environment

Operating Temperature	41°F–95°F (5 °C–35 °C)
Storage Temperature	14°F–140°F (-10°C–60 °C)

Remote Control

Battery	AAA x 2
Operating Range	13.2’ (4 m)/±30°
Dimensions	1.7” (W) x 0.8” (H) x 4.3” (D) (44 mm x 20 mm x 108 mm)
Net Weight	56 g (including batteries)
Laser Pointer	Class II Laser (Max. Output: 0.9 m W/Wave length: 645–660 nm)

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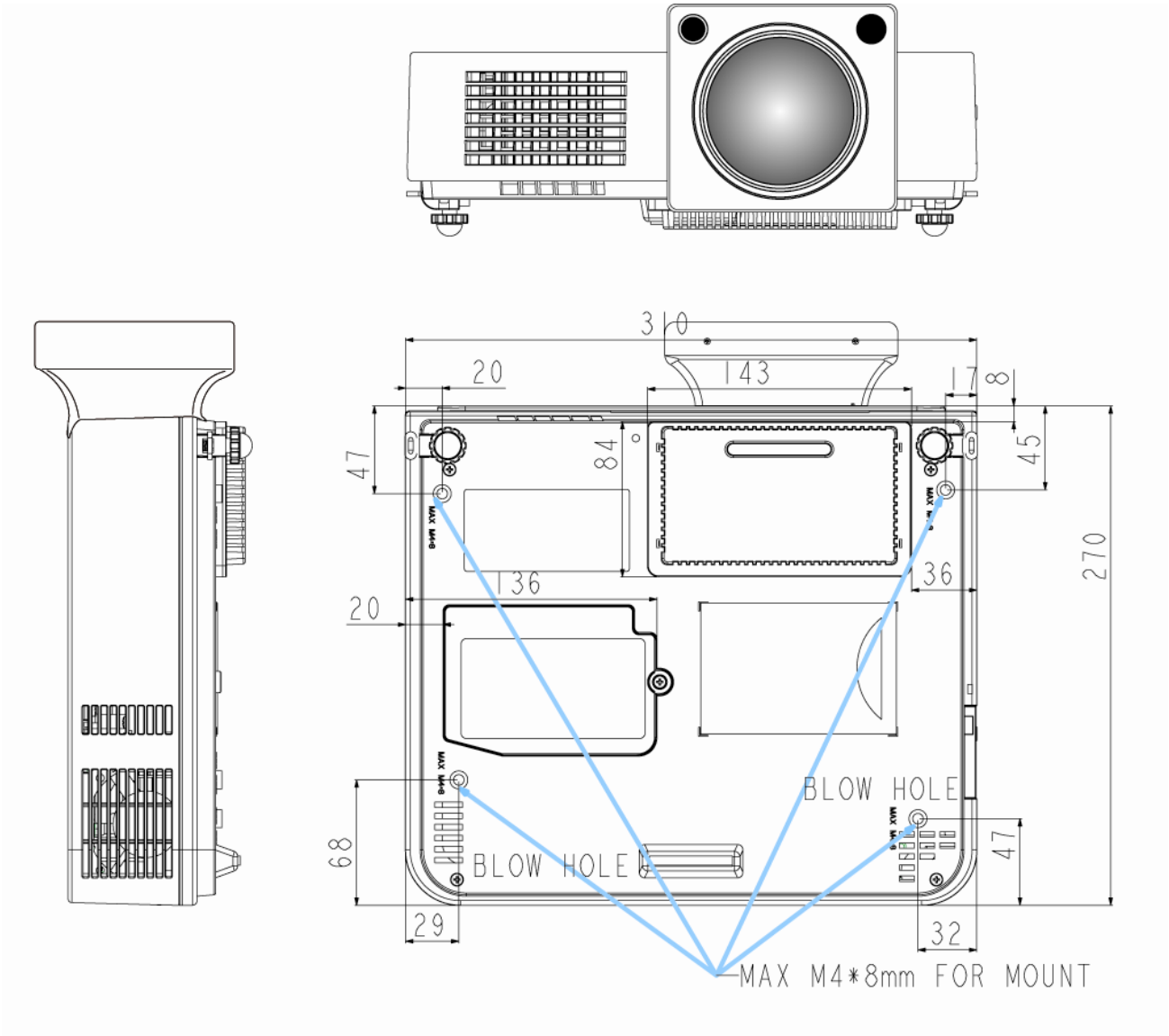
Ceiling Mounted Installation Guide

Attach the optional ceiling mount at four-suspension bracket fixing points when suspending the from a ceiling.



⚠ A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for more details.

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1.Cleaning the projector

Clean the projector cabinet by wiping it gently with a soft cloth.If necessary, the cabinet can be cleaned using a neutral detergent and a soft cloth ensure th case

⚠ **WARNING** Always unplug the projector before performing any maintenance.

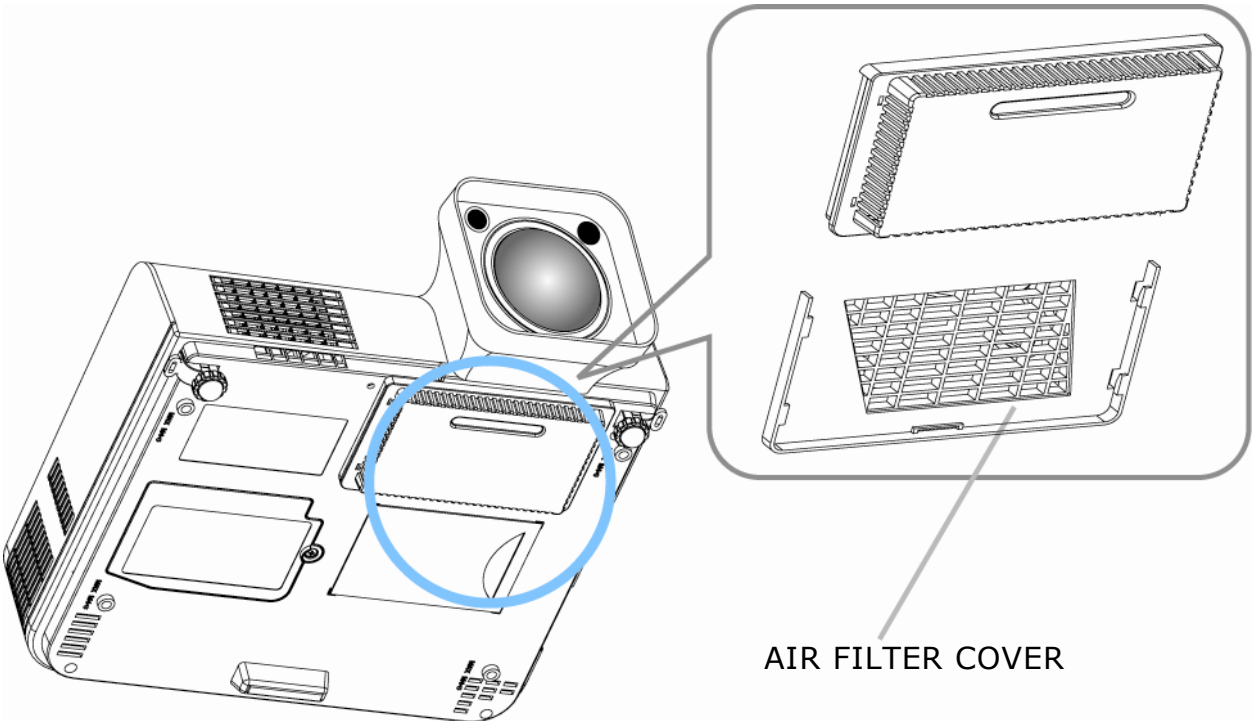
2.Cleaning the lens

Use a commercially available air blower, or use lens cleaning paper and lens cleaner approved for use on optical coatings.
Do not clean the lens with harsh materials or subject the lens to shock, as it can easily become damaged. Close the lens cover when the projector not in use.

3.Change Air Filter

When the air filter becomes clogged with dust, etc., the projector may overheat and turn itself off to prevent internal damage.

Clean the air filter every 100-hours.
*If the filter is difficult to clean or if it is deteriorating, it should be replaced
1.Remove the filter cover from the bottom of projector.
2.Pull out the air filter.
3.Install the new air filter.



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4.Q: Why can't install the program?

A: You might need to log in as "administrator" to be able to install program to your computer. Consult with your I/T engineers to help you in this case. In addition, program will be deleted if you install twice due to the setting of program. In this case, please install again.

5.Q: Why is it showing "No lightpen found"?

A: The possible reasons for this might be:

(1).USB cable not well connected

Please check and make sure the cable is well connected between PC and Projector.

* Some Anti-virus program will disable the USB port. Please close the anti-virus program and start the "LightPen" program again.

(2).USB driver is not well installed

(3).The length of USB cable is too long. The USB cable should be shorter than 1.5M. If you would like to require longer cable then please purchase proper USB extension cable from your dealer.

(4).USB port on computer malfunction

Please check if the USB port is functioning. If not, please consult with I/T engineer.

Some note book computer will disable USB ports when the battery is low. Please try to use AC power. Some note book computers do not provide standard 500mA to the USB ports or the USB converter is not working properly, in this case please use our standard USB cable.

6.Q: Why the green cross target does not appear after running lightpen calibration?

A: This is signaling too weak caused by using USB cable either poor quality or too long. Try a better quality USB cable or use proper USB extension cable.

7.Q: Why can't I make the green cross target turn into black in calibration procedure?

A: Possible reasons are the wand or light pen is out of battery or the system not working properly caused by strong ambient light interference.

8.Q: Why the green cross target turns into black itself?

A: This is caused by strong ambient light interference. Try to control the ambient light.

9.Q: What is considered as "strong ambient light interference"?

A: Strong ambient light is usually caused by the following:

(1).Sun light direct projection on the screen. You can use curtain to avoid this.

(2).Tungsten lamp working close to the sensor. Try to move the tungsten lamp away from the sensor or switch it off.

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10.Q: Why is the cursor not at the position pointed?

A: The possible reasons for this are:

(1).The system not been well calibrated. Try to point to the "center" of green cross target when you running calibration.

(2).The position of the projector, screen or projection size has been changed

(3).The image resolution been changed
Run the calibration procedure again will solve the problem.

11.Q: Why is the lightpen not working?

A: The reasons for this are:

(1).When using lightpen device, writing in shadow area won't work as the signal can't be received by the sensor.

(2).Lightpen battery is low or battery cap is loose.

(3).Strong ambient light interference.

(4).USB cable not well connected.

12.Q: Why is the cursor jumping?

A: This is caused by strong ambient light interference. Try to avoid strong ambient light interference especially strong sun light directly projection on the screen.

13.Q: Why is the lightpen not working after the computer wake up from standby?

A: In some cases if the computer goes into standby mode, the computer will shot the USB port. In this case, close the light pen program and then run it again.

Remarks

1.The lightpen is working on light signal. Strong ambient light interference will cause it to work abnormally. Make sure there is not strong ambient light (ex. Sunlight or Tungsten lamp directly projection to the screen or the sensor.

2.When using lightpen device, writing in shadow area won't work as the signal can't be received by the sensor.

3.The operation system must be Windows 2000 service pack 2 and above. USB port must support USB2.0.

4.It is required to use USB cable shorter than 1.5m
For more longer requirement such as ceiling application, please contact with your dealer to purchase proper USB extension cable.

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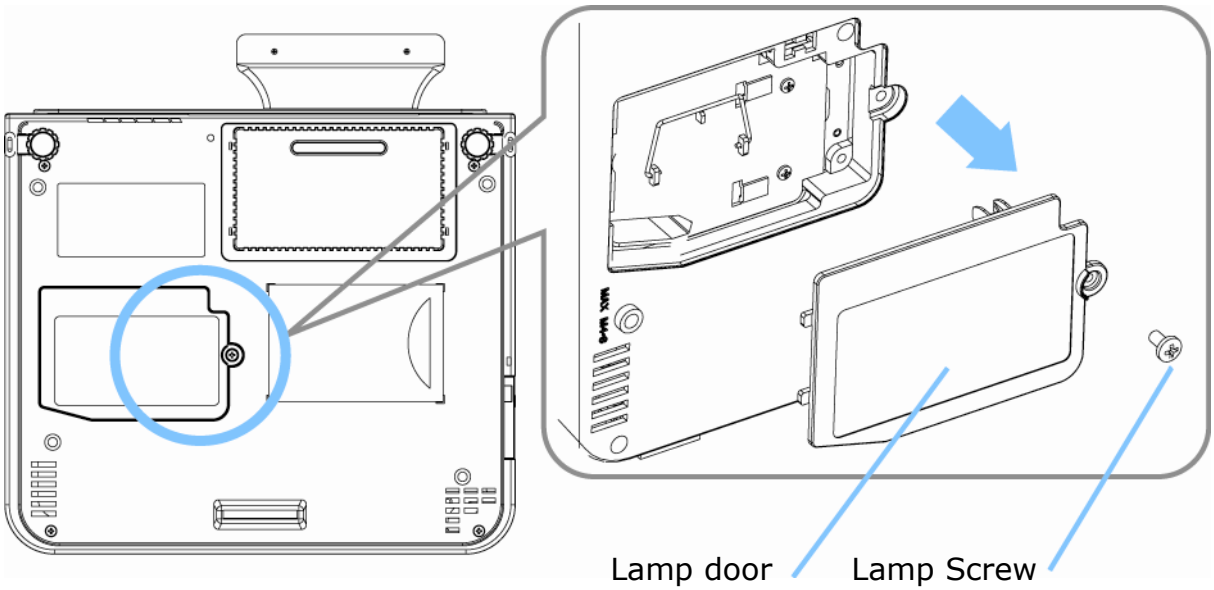
Lamp Replacement



1. Remove the lamp screw from the lamp door.
2. Remove the Lamp Door.
3. Remove the two Phillips head screws that hold the lamp in place.
4. Grasp the handle on the top of the lamp and pull the lamp straight up out of the projector.
5. Slide the replacement lamp into place and press firmly to seat the lamp.
6. Reinstall the screws removed in step 3.
7. Reinstall the lamp door correctly and tighten the screw on the lamp door.
8. Please see page 61 for resetting the lamp timer.

⚠ CAUTION The lamp and inside of the projector become very hot while the projection lamp is lit. Allow the projector to cool for at least 15 minutes prior to opening the lamp door.

⚠ WARNING Do not touch the bulb. Touching the bulb will greatly decrease the life of the lamp and could cause the bulb to explode.

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Indicators

The Power and Lamp indicators show the status of the projector. Before requesting repair, check the projector status using the chart below. If the problem cannot be resolved contact your dealer.

Power (Green)	Lamp (Red)	Conditions	Notes
Slow flashing ☼	Off ●	Stand by mode	Projector is ready to be turned on (normal)
On ●	Off ●	On mode	Projector is on and operating normally
On ●	Slow flashing ☼	Cool-down mode	Projector is in cool-down mode and will not respond to user input (normal)
On ●	Fast flashing ☼	Fan-fault mode	The projector has detected a problem with an internal fan, the lamp will shut off automatically, contact your dealer
Fast flashing ☼	On ●	Lamp-cover open	The lamp cover is open or there is a problem with the lamp. If the lamp door is closed and replacing the lamp does not correct the issue, contact your dealer.
Fast flashing ☼	Fast flashing ☼	High temperature	The projector has overheated and shut the lamp off. Correct the over temp condition immediately. 1. Check that the ventilation slots are free from obstructions 2. Check the cleanliness of the air filter. 3. If the condition persists, contact your dealer
Slow flashing ☼	Slow flashing ☼	Lamp-fault mode	The lamp does not light., come back ”stand by mode”, and turn on the power button.

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Symptom	Possible cause	Remedy
The power is not turned on	The main power switch is not turned on. The power cord is disconnected.	Turn on the main power switch. Plug the power cord into an AC power outlet
No video	The input is not correctly connected. No signal input. No open lens cover.	Select the appropriate input source. Connect correctly. Remove the lens cover.
No audio	The projector is not correctly connected. The volume is set to minimum. Mute is turned on.	Check audio cable connect correctly. Adjust the volume. Press the MUTE button.
No remote function	No battery. Remote signal be obstructed	Check battery of remote controller. Remove obstacle between projector and remote controller.
Colors are pale	Color density and color matching are not correctly adjusted. Color lose.	Adjust the RGB setting. Check VGA cable.
Abnormal brightness & contrast	Brightness and contrast are not correctly adjusted. The lamp is nearing the end of its service life.	Adjust the brightness and contrast setting. Replace with a new lamp.
Video is blurred	Focus or RGB phase is out of adjustment.	Adjust the focus and phase.

Note : Although bright spots or dark spot may appear on the screen ,this is a unique characteristic of liquid crystal displays,and it does not constitute or imply a machine defect.

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List of Supported Monitor Displays		
Computer mode		
Signal	Refresh Rate(Hz)	Resolution(dots)
VGA	60	640X480
VESA	60/72/75/85	640X480
SVGA	56/60/72/75/85	800X600
XGA	60/70/75/85	1024X768
SXGA	70/75	1152X864
SXGA	60/75	1280X960
SXGA	60	1280X1024
MAC	67	640x480
MAC	75	832x624
MAC	75	1024x768
MAC	75	1152x870
Component(YPbPr)		
Signal	Refresh Rate(Hz)	Resolution(dots)
SDTV(480i)	30	720X480
SDTV(480p)	60	720X480
HDTV(720p)	60	1280X720
HDTV(1080i)	30	1920x1080
Composite/S-video		
Signal	Refresh Rate(Hz)	Resolution(dots)
TV(NTSC)	60	720X480
TV(PAL,SECAM)	50	720X576

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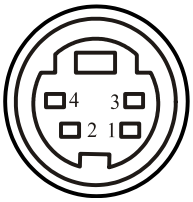
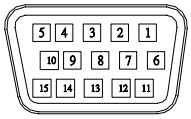
Configurations of Terminal

S-Video signa



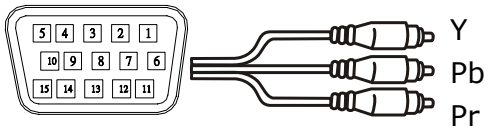
Signal name	Connection
Y signal	GND
return(GND)	GND
C signal	Y
return(GND)	C
Y signal Input	
C signal Input	

Analog RGB Input/output



Signal name	Connection	Signal name	Connection
R signal Input	R	N.C	N.C
G signal Input	G	N.C	GND
B signal Input	B	Signal return(GND)	N.C
N.C	N.C	DDC_Data	DDC/SDA
GND	GND	HSYNC/TTL/comp.sync	H
R return(GND)	GND	VSYNC	V
G return(GND)	GND	DDC_Clock	DDC/SCL
B return(GND)	GND		

Y,Pb,Pr

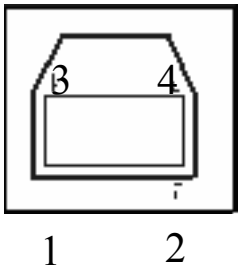


Signal name	Connection	Signal name	Connection
R signal Input	Pr	N.C	N.C
G signal Input	Y	N.C	N.C
B signal Input	Pb	N.C	N.C
N.C	N.C	N.C	N.C
GND	GND	N.C	
R return(GND)	GND	N.C	
G return(GND)	GND	N.C	
B return(GND)	GND		

RS-232C input

D sub-9 pin female	Mini-Din 8 pin plug
2 RXD	5
3 TXD	3
5GND	4,8

USB Connector



Signal name
VCC
DATA-
DATA+
GND

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